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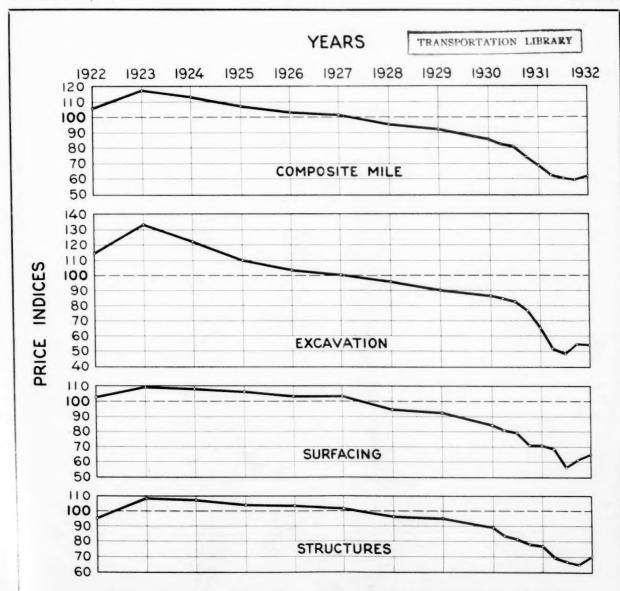
UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF PUBLIC ROADS



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TREND OF HIGHWAY CONSTRUCTION COST
BASE 1925-1929 FEDERAL-AID COSTS

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The reports of research published in this magazine are necessarily qualified by the conditions of the tests from which the data are obtained. Whenever it is deemed possible to do so, generalizations are drawn from the results of the tests; and, unless this is done, the conclusions formulated must be considered as specifically pertinent only to the described conditions

In This Issue Page The Illinois Financial Survey 37 State Gasoline Taxes, 1932 Motor-Vehicle Registrations, 1932 Motor-Vehicle Receipts, 1932 Price Indices Show Trend of Highway Construction Costs

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THE ILLINOIS FINANCIAL SURVEY

Digest of a Survey of the Finances of Illinois in 1930, with Special Reference to Highways, Conducted by the Bureau of Public Roads and the University of Wisconsin

THIS STUDY of highway finance in Illinois is one of a series conducted by the United States Bureau of Public Roads in cooperation with the University of Wisconsin and various State highway departments, involving expenditures for highway purposes and the incidence of taxes for these and other purposes. The Illinois survey is based on the calendar year 1930.1 The following summary of the comprehensive report made by the investigators has been prepared by the Division of Highway Transport of the Bureau in order to make the results available in concise form. The arrangement of material follows that of the Wisconsin summary for greater ease of comparison.

The calendar year 1930 was selected for the study because of its being a United States census year, as well as the latest year for which data from Cook County could be obtained. It is also the same year for which the similar studies in Wisconsin and Michigan

were made

To classify the incidence of taxation, the State was divided into groups of governmental units and into classes of residence. To distribute highway expenditures, the highway classifications in use in the State were adopted.

Division into groups of governmental units and

classes of residence was as follows:

The State government.

The counties:

Group 1.—All counties with a population of over 400 persons per square mile in 1930.

Group 2.—All counties with a population of from 75 to 400 persons per square mile in 1930.

Group 3.-All counties with a population of from 45 to 74 persons per square mile in 1930.

Group 4.—All counties with a population of from 30 to 44 persons per square mile in 1930.

Group 5.—All counties with a population of from 20 to 29 persons per square mile in 1930.

The municipalities, or local government units:

Townships (embracing all rural areas outside of incorporated municipalities).3

Incorporated places having a population of 2,500 or less.

Incorporated places having a population of 2,500 to 15,000.

Incorporated places having a population of 15,000 to 75,000.

Incorporated places having a population of 75,000 to 400,000.

The city of Chicago.

The purposes of the investigation were as follows: 1) To study and analyze the direct and indirect highway receipts and disbursements of the State and of the counties, townships, municipalities, and other political subdivisions thereof; (2) to develop facts and information showing the effect of highway and related taxes on property of all kinds; and (3) to develop the total amount of revenues raised for all other governmental purposes of the State, counties, and local units as compared with the revenues raised for highways, bridges, and streets.

Illinois was selected as a field for study partly because of the representative character of its centralized highway development and partly because the facts as to receipts, expenditures, and debts of the State had never before been assembled. It was believed of value, therefore, to present information relative to the highway situation in Illinois, and also to obtain general financial statistics for use in intelligently planning

future Illinois highway programs.

It is natural that these exhaustive investigations should reveal many incidental facts. This has been the case in Illinois, where certain conditions have been noted which appear worthy of mention: (1) There was apparent, quite generally, evidence of conscientious efforts on the part of most local fiscal agents in all branches of the State government to carry on their work in a satisfactory and cooperative way under difficult and complex conditions which seemed to the investigator to be most discouraging; (2) the fiscal system and records of the State-wide organization of counties and local units are cumbersome and unscientific; (3) the State has no central accounting control of any kind: (4) the taxing authority is excessively subdivided; and (5) the existing organization automatically creates unduly heavy overhead for local road administration.

The reader should bear in mind that the present study relates only to the year 1930. Students of taxation problems will readily realize that the situation here portrayed differs somewhat from that existing today in Illinois and Chicago. The value of this study, however, lies in its analysis of fundamental relationships between taxes and expenditures, and is not diminished by temporary and abnormal conditions

affecting tax collections.

In considering the financial data for Illinois, care must be used to make proper allowance for the great influence exerted by the city of Chicago upon all trends and averages. In this city were concentrated over 44 percent of the population, over 31 percent of all motor vehicles, and over 45 percent of the assessed valuation of the entire State of Illinois. Upon taxpayers of this city

The investigation was directed by Henry R. Trumbower, professor of economics at the University of Wisconsin and economics for the Burgau of Public Roads, assisted by the late A. R. Hirst, engineer, and H. R. Briggs, statistician. The Division of Highways, Illinois Department of Public Works and Buildings, cooperated in making the facts and data available. The full report was recently published by the State of Illinois, under the title "Economic Survey of Illinois."

1 For results of the Wisconsin survey, see the April 1933 issue of Public Roads.

3 There are in Illinois incorporated cities, villages, and towns. All such municipalities are included in the classification of incorporated places.

were levied more than 55 percent of all taxes levied within the State; and more than 52 percent of the total public expenditures in Illinois in 1930 was made in Chicago.

GOVERNMENTAL SYSTEM DESCRIBED

The State Government is of the usual type, with a General Assembly composed of 2 houses, a Governor and other State elective offices, 9 executive departments and other appointive bodies.

There is a State tax commission the duties of which are to fix the valuation of railroads and certain property of corporations, and generally to supervise local property taxation.

There are two distinct types of county government— 17 counties in the southern part of the State have a county unit system and 85 counties have the township form of organization; in Cook County there is a special form of county organization.

Local government is complex, with many concurrent overlapping governmental bodies. The taxpayer may find himself subject to concurrent property taxes levied by the following agencies: State, county, township, village or city, high-school district, common-school district, sanitary district, forest-preserve district, park district, and mosquito-abatement district, or 10 governmental agencies. And, in addition, he may be subject to special assessments for streets, sidewalks and sewers. Each of these agencies has its own set of officers, its own records, and an authority to levy taxes and incur indebtedness. In this study it has not been the practice to divide the units of government further than the townships and incorporated places. Other minor governmental areas have been treated as parts of the larger units containing them.

POPULATION AND ASSESSED VALUATION

In 1930 the population of Illinois was 7,630,654. Concentration of population was primarily urban—6,286,995 persons being inhabitants of incorporated places and 1,343,659 being residents of unincorporated territory. These urban populations tend to concentrate in metropolitan areas, as shown by the fact that 4,486,441 persons live in cities of over 25,000. Of these, 3,376,438 live in the city of Chicago.

The assessed valuation of all taxable property in Illinois in 1930 was \$7,718,657,700. Twenty-six percent of the assessed valuation was in the townships; 6 percent in incorporated places having a population up to 2,500; 8.8 percent in incorporated places having a population of 2,500 to 15,000; 11.3 percent in places having a population of 15,000 to 75,000; 2.2 percent in places having a population of 75,000 to 400,000; and 45.7 percent was in Chicago. Thus, 26 percent of the valuation was in the rural areas, and 74 percent in the urban areas.

So far as could be ascertained, real estate in Illinois was assessed in 1930 at from 30 to 40 percent of its actual value, and personal property at only nominal values.

The report on Illinois indicates that many of the relationships found to exist in Wisconsin are duplicated. Conspicuous among these are the substantial contributions to rural areas from the various municipal groups. There is an indication, however, that the large metropolitan centers such as Milwaukee in Wisconsin, Chicago in Illinois, and Detroit in Michigan are not only unique in the State but sometimes have a tendency to alter very substantially, or even to reverse, observed tendencies.

HIGHWAY SYSTEMS IN 1930

In 1930 there were three systems of rural highways in Illinois.

Of the rural highway system, 10,098 miles, or 10.4 percent of the total, comprise the State primary system. This system is under the jurisdiction of the Illinois Department of Public Works and Buildings, Division of Highways. It is a system designed as a State trunk system and is for the most part well paved.

Seventeen thousand three hundred sixty-nine miles, or 17.9 percent of the total, comprise the county highway system. This system is under the joint jurisdiction of the counties and the State Department of Public Works and Buildings. It serves principally county travel. The larger part of this system consists of earth roads.

Seventy-one and seven tenths percent of the total rural highways of the State are local roads under the jurisdiction of local authorities. It is interesting to note that these locally administered roads comprise a mileage nearly seven times as extensive as that of the system under direct control of the Division of Highways. With the exception of a small percentage of gravel, earth roads comprise practically all of this system. Table 1 classifies the rural mileages by highway systems and by type of surfacing. The financing of each of these types will be discussed in later pages.

The total rural highway mileage of the State amounts to 97,234 miles, or an average of 1.735 miles per square mile of territory. This is the mileage as traveled in 1930 and may vary somewhat from other mileages based on systems as officially laid out or designated.

Table 1.—Mileage and surfacing of rural highways in 1930

	Mileage and type of surfacing											
System	Concrete		Bitum- inous macadam		Stor grav etc	el,	Ear	th		Γotal		
	Miles	Per- eent	Miles	Per- cent	Miles	Per- cent	Miles	Per- cent	Miles	Per- cent	Per- cent age of tota	
State	7, 683 1, 453 83		26 130 90	.7	4,726	27. 2	2, 268 11, 060 58, 404	63. 7	17, 369	100.0	17	9
Total	9, 219	9. 5	246	. 2	16, 037	16.5	71, 732	73. 8	97, 234	100. 0	100.	(

At the end of 1930 there were 25,502 miles of surfaced rural highways in Illinois, or 26.2 percent of all rural highways. On the State system, 77.6 percent were surfaced; on the county system, 36.3 percent; and on the local roads, 16.3 percent.

Of the total rural highway mileage in the State, 73.8 percent is earth.

The Illinois State highway system, which is under the control of the Division of Highways, and for which the department is directly responsible for construction and maintenance, is divided into 2,724 miles known as the primary Federal-aid system; 4,252 miles called the secondary Federal-aid system; and the remaining 3,122 miles are classed as other State highways. The entire system is commonly known as the State primary system, or the State bond issue road system.

The funds for this State primary system are derived from State imposts upon motor vehicles, from Federal aid and from bond issues. As the bond issues are being retired out of the motor-vehicle imposts, in the final analysis the entire program will be carried by these imposts, plus the Federal aid.

Few facts are available as to city and village streets in the State of Illinois. Nothing is known as to their total mileage or as to their types of surface. It is known that out of the \$166,298,900 expended on all highways in Illinois in 1930, \$100,100,200, or two thirds of the total of all highway expenditures of the year, were local expenditures on municipal streets. Of this

amount, \$75,873,300 were expended by the city of Chicago alone.

METHOD OF OBTAINING DATA DESCRIBED

Despite difficulties which at first seemed insurmountable—including the absence of a central assembly of financial and tax statistics, the scarcity of public reports of counties and municipalities, and the diversified and complicated systems of municipal accounting existing in Illinois-preliminary visits to some of the leading counties and cities showed that much information was available.

It was decided, therefore, to obtain the primary data for the counties and the larger cities by a personal visit to each, for the purpose of analyzing and collecting the material on the premises. The result is that on probably half of the counties and the majority of the larger cities, accurate detailed data have been secured from audit reports. On the majority of the remaining counties and cit-

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ler ch ion the 122 ire VSved ral piled directly from the county records. Of the balance of the counties and cities which were for the most part small with poor records, the best possible estimates were

made from all of the information available on the premises, plus general information obtained by interviewing the officials.

Encouraged by the results obtained from the counties, the investigators decided to attempt a simple financial questionnaire for the townships, villages, and minor cities. The results exceeded expectations, over 1,000 good replies being received. These for the most part indicate a conscientious, intelligent effort on the part of the local clerks to give the data correctly. Through averages and ratios based on these replies, a cor-

rect picture of the minor local Illinois governmental units can be drawn.

To obtain figures on such matters as mileage traveled by motor vehicles, gasoline consumed, and taxes paid, questionnaires were sent to many thousands of motor vehicle owners. Additional data were secured through analysis of a large sample of car registrations. Further details on these points will be found in the section on "Motor-Vehicle Registration, Taxes, and Travel." (See p. 41.)

Total taxes and imposts levied for all purposes in Illinois in 1930 were \$582,407,100. Taxation of general property totaled \$427,317,600; all motorvehicle imposts, including gasoline tax, \$54,149,-100; other sources, including insurance and inheritance taxes, valuation tax on railroads, corporation imposts, certain local imposts, and miscellaneous State revenues, \$100,940,400.

ILLINOIS TAXES IN 1930

Of the total taxes and imposts levied, rural taxpayers were charged with \$71,516,100, or 12.3 percent; those in incorporated places having a population up to 2,500, \$38,011,300, or 6.5 percent; in places of 2,500 to 15,000 population, \$65,583,100, or 11.2 percent; in places of 15,000 to 75,000 population, \$73,745,800, or 12.7 percent; in places of 75,000 to 400,000 population, \$12,068,300, or 2.1 percent; in Chicago, \$321,482,500, or 55.2 percent.

The average actual tax rates on general property, per \$100 valuation, were as follows: Rural, \$2.81; incorporated places up to 2,500 population, \$4.59; places 2,500 to 15,000 population, \$6.20; places 15,000 to 75,000 population, \$5.71; places 75,000 to 400,000 population, \$4.74; Chicago, \$7.08.

Rural motor vehicles owners paid in license fees and gasoline taxes an average of \$21.77; those resident in places up to 2,500 population, \$25.81; in places 2,500 to 15,000 population, \$28.19; in places 15,000 to 75,000 population, \$30.31; in places 75,000 to 400,000 population, \$21.53; in Chicago, \$31.41.

TAXES LEVIED AND INCIDENCE OF TAXATION

Table 2 gives the total taxes levied for all purposes in Illinois in 1930 by the State government, the counties, and the several classes of local government unit. The importance of Chicago in the financial set-up of the State is emphasized by the fact that of all taxes levied in Illinois in 1930. 41.2 percent were imposed by the city of Chicago.

Since all State and county imposts and taxes are

ies, good information has been obtained which was com- | ultimately paid by taxpayers in townships and incorporated places, the amounts shown in the above table may be restated to show their distribution as ultimately paid. This distribution is shown in table 3. Here again it is found that 55.2 percent of all the charges in 1930 were levied on taxpayers in Chicago.

Table 2.—Total of all State and local charges imposed for all purposes by the State and its subdivisions for collection in 1930

Imposed by—	Amount	Per- cent	Per capita
State	\$136, 227, 300	23. 4	\$17.85
	45, 208, 900	7.8	5. 92
	40, 407, 800	6. 9	30.07
	22, 328, 600	3.8	34. 28
	44, 079, 700	7. 6	46, 41
	47, 140, 200	8. 1	42.14
	7, 180, 600	1. 2	37.63
Chicago.	239, 834, 000	41. 2	71.03
Total	582, 407, 100	100.0	76. 32

Table 3.—Incidence of all State and local charges imposed in 1930

Payable by taxpayers in→	Amount	Per- cent	Per capita
TownshipsPlaces up to 2,500	\$71, 516, 100 38, 011, 300	12.3 6.5	\$53, 22 58, 37
Places 2,500 to 15,000	65, 583, 100	11. 2	69. 05
Places 15,000 to 75,000	73, 745, 800	12.7	65. 92
Places 75,000 to 400,000	12, 068, 300	2.1	63. 24
Chicago	321, 482, 500	55. 2	95, 21
Total.	582, 407, 100	100.0	76, 32

The sources of total Illinois revenue for all purposes in 1930 are shown in table 4. It is to be noted that in these tabulations there have been included both the taxes levied but not fully collected, principally general property taxes; and taxes actually collected, such as motor-vehicle, corporation, inheritance, and other imposts. (See p. 45.)

Table 4.—Sources of revenue by type of tax or revenue

Type of tax	Amount	Per- cent	Per capita
Ad valorem general taxes	\$427, 317, 600	73. 4	\$56.00
Ad valorem railroad raxes	31, 272, 400	5.4	4, 10
Other railroad taxes	2, 478, 900	. 4	. 32
State motor-vehicle imposts	46, 974, 600	8.1	6, 15
Local vehicle imposts	7, 174, 500	1.2	. 94
Other local imposts	41, 570, 400	7.1	5, 45
Inheritance taxes	12, 802, 100	2.2	1.68
Insurance taxes	6, 342, 000	1.1	. 83
Corporation imposts		. 7	. 54
Miscellaneous State revenues	2, 386, 000	. 4	. 31
Total	582, 407, 100	100.0	76, 32

RECAPITULATION

General property taxes	\$427, 317, 600	73.4	\$56,00
Railroad taxes	33, 751, 300	5.8	4. 42
Motor-vehicle imposts	54, 149, 100	9.3	7.09
Other local receipts	41, 570, 400	7.1	5, 45
Other State receipts	25, 618, 700	4. 4	3, 36
Total	582, 407, 100	100.0	76. 32

TAXATION DATA SUMMARIZED

In order to summarize the total revenues of the State as shown by table 4, another distribution of these revenues to show their incidence by general types of taxes and by classes of places in which they are paid is given in table 5. The item "other taxes" includes imposts on

Table 5.—Incidence and classification of all taxes levied in 1930

Payable by tax-	General pre erty taxe				Other tax	es	All taxes		
payers in—	Amount	Per- cent	Amount	Per- cent	Amount	Per- cent	Amount	Per-	
Townships	\$56, 409, 700	13. 2	\$4, 828, 600	8.9	\$10, 277, 800	10. 2	\$71, 516, 100	12.3	
Places up to 2,500	21, 263, 500	5. 0	7, 255, 100	13. 4	9, 492, 700	9. 4	38, 011, 300	6. 5	
15,000	41, 953, 700	9.8	8, 543, 600	15. 8	15, 085, 800	14. 9	65, 583, 100	11.3	
75,000	49, 698, 600						73, 745, 800	12. 6	
400,000 Chicago	8, 187, 200 249, 804, 900		1, 911, 800 21, 709, 700		1, 969, 300 49, 967, 900		12, 068, 300 321, 482, 500	2. 1 55. 2	
		100. 0		100. 0		100. 0		100, 0	
Total	427, 317, 600	73. 4	54, 149, 100	9. 3	100, 940, 400	17.3	582, 407, 100	100. 0	

¹ Includes license fees, \$18,447,200; gasoline tax, \$28,246,700; oil-inspection fees, \$280,700; and wheel taxes, \$7,174,500. (See pp. 41 to 44 for detailed discussion.)

railroad property, inheritance taxes, insurance taxes, corporation imposts, and miscellaneous State and local imposts. The ad valorem railroad taxes should properly be classified under general property taxes, but no break-down was available on this item taken alone.

Table 6 gives, in the first column of figures, the tax rates per \$100 valuation required to meet the total charges levied upon general property in each of the several classes of local government unit. For purposes of comparison, the second column gives the rates which would have been required if all taxation had been levied upon general property; and the last column gives

the percentages which general property taxes were of all levies.

Table 6.—General property tax rates per \$100 valuation in 1930, and their relation to the total of all imposts

Unit of government in which taxes were payable	Actual tax rate on general property tax as levied	Tax rate needed to raise all taxes by general property tax levies	Percentage that general property taxes are of all taxes and im- posts
Townships Places up to 2,500 Places 2,500 to 15,000 Places 2,500 to 15,000 Places 15,000 to 75,000 Places 75,000 to 400,000 Chicago	\$2. 81 4. 59 6. 20 5. 71 4. 74 7. 08	\$3, 56 8, 20 9, 69 8, 47 6, 98 9, 12	78. 9 55. 9 64. 0 67. 4 67. 8
Average for State	5, 54	7. 55	73. 4

STREET AND HIGHWAY REVENUES OBTAINED FROM GENERAL PROPERTY AND MOTOR-VEHICLE TAXES

The amount of \$150,266,700 was levied in the State of Illinois in 1930 for street and highway purposes. Of this sum, the charges imposed directly against motor vehicles and their owners and operators was somewhat over one third of the total, the balance being charges against property. Table 7 shows these facts in detail.

Table 7.—Taxation imposed for street and highway purposes in 1930

Type of tax	Amount	Per- cent	Per capita
On general property: County Local Special Railroad	29, 122, 800 56, 260, 200	4. 7 19. 4 37. 4 2. 4	\$0.9. 3.8 7.3 .49
Total	96, 117, 600	63. 9	12, 5
On motor vehicles: License fees Fuel tax Oil inspection fees. Privilege or "wheel" taxes (local).	28, 246, 700 280, 700	12. 3 18. 8 . 2 4. 8	2.4 3.7 .0
Total	54, 149, 100	36. 1	7.1
Grand total	150, 266, 700	100. 0	19.6

Table 8.—Incidence of taxes imposed for street and highway purposes in 1930, classified by groups of places

Payable by taxpayers and motor-vehicle owners in—	Amount	Per- cent	Per capita
Townships. Places up to 2,500. Places 2,500 to 15,000	\$16, 996, 900	11. 3	\$12.65
	15, 059, 300	10. 0	23.12
Places 2,000 to 15,000	21, 479, 300	14. 3	22. 62
Places 15,000 to 75,000	22, 114, 800	14. 7	19. 77
Places 75,000 to 400,000	3, 702, 800	2. 5	19. 40
Chicago	70, 913, 600	47. 2	21. 00
Total	150, 266, 700	100. 0	19:66

Table 8 shows the distribution of the street and highway levies as amounts paid (or payable) by taxpayers and motor-vehicle owners in the several classes of local government unit. The amount given for each class of place is the sum of all taxes imposed for highway purposes, including local privilege taxes and portions of the local general property tax levies, local special assessments, and local railroad taxes 4; that portion of the

 $^{^4}$ Out of a total of \$31,272,400 in local railroad taxes, \$3,658,400 were levies for local roads and streets.

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county property taxes allocated to the communities on the basis of relative property values; and the amount of State gasoline and vehicle fees contributed by motor vehicle owners in these groups of places as determined by facts ascertained in this study.

For the cities, this includes the contributions for local street improvements as well as the urban share of the rural highway program. The same facts classified by county groups instead of groups of places are shown in table 9.

Table 9.—Incidence of taxes specifically imposed for street and highway purposes in 1930, classified by groups of counties

Payable by taxpayers and motor-vehicle owners in —	Amount	Per- cent	Per capita
County group:	A-1 - 1-0 - 0-00		
1	\$87, 512, 900	58. 2	\$21.98
Zoron market erretter erretter er en	29, 217, 100	19. 5	17.61
0.0000000000000000000000000000000000000	18, 888, 100	12.6	17.31
•	12,057,800	8. 0	16, 83
	2, 590, 800	1.7	14, 27
A	2, 030, 300		

MOTOR-VEHICLE REGISTRATION, TAXES, AND TRAVEL

Registrations.—There were 1,642,628 motor vehicles of all types registered in the State of Illinois in 1930, or 1 for every 4.6 persons. The ratio of passenger cars was 1 to every 5.3 persons, and of motor trucks and busses 1 to every 37.1 persons.

In order to allocate motor vehicles among the local units of government, a sample of 50,000 motor-vehicle registrations was tabulated, and the situs of vehicles whose location was uncertain was verified by correspondence. On the basis of the distribution shown by this sample, an approximate allocation was made, by place of ownership, of all registered motor vehicles, among the several county groups and the classes of local unit. This distribution is shown in table 10. The data are subdivided between passenger automobiles on the one hand and trucks and busses on the other.

Table 10.—Number of registered automobiles and trucks and busses in 1930, distributed by place of ownership ¹

		Pla	ace of o	wnershi	p			State
County group	Townships	Places up to 2,500	Places 2,500 to 15,000	Places 15,000 to 75,000	Places 75,000 to 400,000	Chicago		Percentage of S
Group 1:					_		-	_
Automobiles Trucks and busses Total Group 2	2, 003 7, 137	1, 233	4, 161	6,010		447, 219 63, 644 510, 863	77, 051	
Automobiles Trucks and busses	11, 346	45, 649 4, 992	8, 447		6, 671			
Group 3:		50, 641	85, 734	160, 776	54, 196		399, 202	24. 3
Automobiles. Trucks and busses	59, 761 12, 906			54, 800			279, 839 38, 528	
Group 1	72, 667	84, 738	98, 806	62, 156			318, 367	
Automobiles Trucks and busses	14 661	92, 671	43, 170				195, 637 30, 831	
Group 5:	74, 457	102, 168	49, 843				226, 468	
Automobiles Trucks and busses	9 018	9 749	966				45, 058	
Total	18, 523	27, 716	4, 868				6, 049 51, 107	
Total for State:				-	-	-		
Automobiles Trucks and busses	176, 805 43, 834	251, 471	248, 242	265, 554	47, 525	447, 219	1, 436, 816	87.5
Percentage of State	220, 038	276, 764	279, 349	300, 817	54, 196	510, 863	1, 642, 628	100, 0
total	13. 4	16. 8	17. 0	18. 4	3.3	31. 1	100. 0	

 $^{^4}$ The distribution shown in this table is based on the analysis of a sample of 50,000 motor-vehicle registrations.

Registration fees.—Total license fees paid in 1930 amounted to \$18,477,200. Passenger cars paid fees of \$8, \$12 or \$20, depending on the horsepower, and motor trucks and busses paid \$10, \$12, \$35, \$75, or \$250.

The total cost of the entire motor-vehicle department, including the licensing division, the investigators' division, and the chauffeurs' licensing division, was \$667,036, which averaged 41 cents per motor vehicle registered. The actual cost of the automobile license department alone, without its allied investigators' and chauffeurs' divisions, was \$482,160, or 29 cents per vehicle registered. The entire cost of the division was 3.6 percent of all the fees collected, and the cost of the automobile license department alone was 2.6 percent of all fees collected.

From the relationships disclosed by the sample of 50,000 vehicles, it was possible to locate motor-vehicle licenses paid by places, and the computations were found to give almost exactly the same totals by counties as were the actual amounts reported by the State authorities as having been paid in the same counties. Table 11 gives total registration fees paid and amounts

Table 11.—Motor-vehicle registrations, persons per vehicle, and registration fees paid, distributed by place of ownership among the several classes of local government unit

Place of ownership	Regis- tration in 1930	Per- centage of total	Persons per vehicle	Regis- tration fees in 1930	Per- centage of State total	Pay- ments per vehicle
Townships:						
Automobiles	176, 805	1 12.3	7.6	\$1, 731, 400	1 12.5	\$9, 79
Trucks and busses	43, 834	2 21. 3		555, 800		12.67
Total	220, 639	13.4		2, 287, 200		10. 3
Places up to 2,500:				-,,		40.0
Automobiles	251, 471	1 17. 5	2.6	2, 236, 500	1 16.1	8, 89
Trucks and busses	25, 293					21. 30
Total	276, 764					
Places 2,500 to 15,000:				2, 110, 000	20.0	10.0
Automobiles	248, 242	1 17. 3	3, 8	2, 364, 200	1 17, 1	9, 53
Trucks and busses						
Total	279, 349					
Places 15,000 to 75,000:			0	0, 001, 100	20.0	10.0
Automobiles	265, 554	1 18, 5	4.2	2, 650, 900	1 19. 2	9. 9
Trucks and busses	35, 263					25. 79
Total	300, 817					
Places 75,000 to 400,000:	300,011		0	01 0001 000	20.0	4.4. 0
Automobiles	47, 525	13.3	4.0	493, 300	1 3, 6	10. 3
Trucks and busses						
Total						12.4
Chicago:				0.00	0. 0	1.0. 1
Automobiles	447, 219	1 31.1	7.5	4, 364, 800	1 31. 5	9. 7
Trucks and busses	63, 644			1,731,300		
Total	510, 863			6, 096, 100		
State totals:						
Automobiles				13, 841, 100	75. 0	9.6
Trucks and busses	205, 812	12.5	37.1	4, 606, 100	25. 0	22. 38
Total	1, 642, 628	100.0	4.6	18, 447, 200	100.0	11. 2

Percentage of total for automobiles.
Percentage of total for trucks and busses.

per vehicle, distributed, by place of ownership, among the several classes of local government unit. The average fee paid for passenger automobiles was \$9.63; for motor trucks and busses, \$22.38; and the average for all motor vehicles registered was \$11.23.

It will be observed that, while the average license fee paid for automobiles does not vary consistently, the fees paid for trucks and busses, as well as the averages for all motor vehicles, increase fairly steadily as the place of residence becomes more urban. It is also notable that trucks and busses, which constitute only 12.5 percent of the registrations, pay 25 percent of the license fees.

Mileage traveled and gasoline consumption.—Data on the average travel and gasoline consumption by Illinois trucks, busses, and automobiles in 1931 were obtained through questionnaires sent to 20,000 motor vehicle owners in the State. As the questionnaire survey was conducted in 1932, it was impossible to expect motor vehicle owners to respond intelligently to requests for information covering the operation of their cars for any period except the year immediately preceding. For this reason the year 1931 was chosen, rather than 1930, which was the year covered by the financial survey. The sample was carefully selected to obtain a distribution in proportion to the motor-vehicle ownership of the various places, and every check indicates that a fair cross section was received. Usable replies were received from 7,150 owners.

The average mileage traveled and the average gasoline consumption by Illinois motor vehicles in 1931 are summarized in table 12. Ownership of the vehicles is classified according to place of residence of the owner. No attempt was made to obtain data as to the classification of the roads and streets on which this travel was performed. The facts summarized below were determined by questionnaire methods.

Table 12.—Average miles traveled and average gasoline consumption in 1931, by place of ownership

	Number of re- ports tabulated			Average gaso- line consump- tion			Average miles traveled		
Place of ownership	Automobiles	Trucks and busses	All vehicles	Automobiles	Trucks and busses	All vehicles	Automobiles	Trucks and busses	All vehicles
Townships. Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago.	1, 030 1, 242 1, 278	92 59 85	1, 122 1, 301 1, 363 189	567 644 672 701	Gal- lons 525 997 881 987 982 1,500	725	9, 229 9, 174 9, 070	10, 154 9, 998 9, 204 8, 502	8, 775 9, 266 9, 176 9, 025
State totals and averages	6, 644	506	7, 150	611	1, 076	644	8, 537	9, 079	8, 57

Further analysis of mileage and gasoline consumption, showing details of travel by groups of counties and by the two principal classes of motor vehicles, is given in table 13. The average passenger-car mileage for the State as a whole is shown to be 8,537 miles, with an average of 611 gallons of gasoline consumed.

Motor trucks and busses as a whole, in both urban and rural districts, traveled a slightly higher mileage than was the case with passenger automobiles. More significant is the fact that the average automobile consumed only 60 percent as much gasoline as was the average for trucks and busses. In the city of Chicago the gasoline consumption of trucks and busses was about two and one half times that of the average car.

No information was obtained as to the respective use of automobiles for business or pleasure purposes, or on the extent of travel outside of the State of Illinois.

From the facts ascertained by this study as to the location of motor vehicles, average miles traveled per vehicle, and the average gasoline consumption, it was possible to compute the total miles traveled in the State, and the total gasoline consumption. Some of these computations, which, of course, are only the most accurate approximations which can be made with the material available, are presented in table 14. Total mileage and gasoline consumption data are given for automobiles and for trucks and busses owned in each of the classes of local governmental unit.

Table 13.—Motor-vehicle travel in 1931 by place of ownership in the 5 groups of counties ¹

		Cou	inty gro	oup		State
Item	1	2	3	4	5	and aver- ages
Travel by automobiles:						
Average mileage traveled by auto-						
mobiles owned in:						. =00
Townships	7, 733	7, 621	6, 447	6, 052	6, 052	6, 709
Places up to 2,500.	8, 954	8, 865	8, 651	8, 541	8, 368	8, 651
Places 2,500 to 15,000	9, 414	9, 171	8, 961	9, 597	8, 761	9, 229
Places 15,000 to 75,000	8, 560	9, 238	9,928			9, 174
Places 75,000 to 400,000		9,070				9, 070
Chicago	8, 546					8, 54
Total.	8, 632	8, 858	8, 493	7, 986	7, 180	8, 53
Average gallons of gasoline con-	0.00	004	***	***	470	0.1
sumed	663	634	560	510	476	61
Travel by motor trucks and busses:						
Average mileage traveled by motor						
trucks owned in:		0 404				0 80
Townships	8, 416	8, 464	6, 034	4, 657	4, 743	6, 76
Places up to 2,500	7, 257	7, 531	13, 907		12,096	10, 15
Places 2,500 to 15,000		10, 952	7,071	12, 166		9, 99
Places 15,000 to 75,000		10, 089	9,970			9, 20
Places 75,000 to 400,000		8, 502				
Chicago					12-12-	9, 28
Total	8, 881	9, 351	9, 606	8, 417	9, 137	9, 07
Average gallons of gasoline con-		0.000	0.00			
sumed	1, 375	923	850	787	991	1, 07
Travel by all motor vehicles:						
Average mileage traveled by motor				1		
vehicles owned in:	7, 794	= =04	0 400	2 000	P (1911)	0 71
Townships	0.701	7,704	6, 422	5, 969		6, 71
Places 2,500 to 15,000	8, 791	8, 754	9, 025	8, 585		8,77
Places 15,000 to 75,000	9, 402	9, 290	9, 931	9, 737	8, 989	9, 26
Places 75,000 to 400,000	8, 143	9, 300				
Chicago.	0 000			1		0.00
		0.000		F 010		
Total.	5, 649	8, 896	8, 562	8, 016	7, 344	8, 57
Average gallons of gasoline con-	710	orm	P.950	EON	250	0.4
sumed	712	657	578	529	519	64

¹ This table shows the variation in the mileage and gasoline consumption in the several groups of counties as indicated by the highway questionnaire sent out and tabulated during this survey.

Table 14.—Mileage traveled, gasoline consumption, and gasolinetax payments by automobiles and by trucks and busses, distributed by place of ownership

Place of ownership	Registra- tions in 1930	Total travel	Per- cent- age of total	Total gasoline con- sump- tion	Total gasoline tax paid	cent- age of	Average per ve- hicle
Fownships:		Mil- lions of vehicle- miles		Thou- sands of gallons			
Fownships: Automobiles	176, 805	1, 186, 2		75, 142	\$1,926,400		\$10.90
Trucks and busses	43, 834	296.4		23, 013	590, 000 2, 516, 400		13.4
Total	220, 639	1, 482, 6	10.5	98, 155	2, 516, 400	8.9	11.4
Places up to 2,500:							
Automobiles					3, 711, 300		
Trucks and busses					656, 400		
Total	276, 764	2, 432. 3	17. 2	167, 801	4, 367, 700	15. 5	15.7
Places 2,500 to 15,000:	010 010	0.001.0					
Automobiles	248, 242	2, 291. 0		159, 868	4, 114, 300		10.5
Trucks and busses					705, 300		
Total	279, 349	2, 602. 0	18. 3	187, 272	4, 819, 600	17.1	17. 2
Places 15,000 to 75,000:							
Automobiles	265, 554	2, 436. 2		178, 452	4, 651, 200		17.5
Trucks and busses		324.6		34, 805	907, 100		25.
Total	300, 817	2, 760. 8	19. 5	213, 257	5, 558, 300	19. 6	18.4
Places 75,000 to 400,000:							
Automobiles	47, 525	431. 1		33, 315	864, 900 170, 100		18.2
Trucks and busses	6, 671	56. 7		6, 551	170, 100		25.
Total	54, 196	487, 8	3.4	39,866	1, 035, 000	3. 7	19,
Chicago:							
Automobiles	447, 219	3, 821. 9		297, 848	7, 534, 700		16,1
Trucks and busses		590. 9		95, 466	2, 415, 000		
Total	510, 863	4, 412. 8	31. 1	393, 314	9, 949, 700	35. 2	19.
State total:							
Automobiles	1 426 916	19 241 6	97 (007 000	90 900 900	00 0	15 1
Trucks and busses	005 816	12, 341.	87. 0		22, 802, 800		15.1
Trucks and busses	200, 812	1, 830, 4	13. 0	212, 450	5, 443, 900	19. 3	26.
Total	1 642 696	14 178 3	100 0	1 000 661	98 946 704	100.0	17 9
4 VIM	1,014,020	14, 110. 0	100.	1, 009, 000	20, 210, 100	100,0	2.61

The gasoline tax.—The total (net after refunds) gasoline tax paid (at the 1930 tax rate of 3 cents per gallon) was \$28,246,700. The cost of collecting this tax and making the refunds was \$79,805, or \$2.83 per \$1,000 collected.

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Table 15.—Average and total payments of motor vehicle fees and gasoline taxes by owners of motor vehicles in Illinois in 1930, distributed according to place of ownership

	Payments per vehicle			Total payments					
Place of ownership	Registra- tion fees	Gasoline tax	Total	Registration fees	Gasoline tax	Oil in- spection fees	Wheel taxes	All motor vehicle im- posts	Percent- age of total
Townships	\$10.37 10.03	\$11.41 15.78	\$21.78 25.81	\$2, 287, 200 2, 775, 300	\$2, 516, 400 4, 367, 700	\$25,000	200 700	\$4, 828, 600	8.
Places up to 2,500	10. 03	17. 25	28, 19	3, 054, 700	4, 819, 600	43, 400 47, 900	\$68, 700 621, 400	7, 255, 100 8, 543, 600	13.
Places 15,000 to 75,000	11.83	18.48	30. 31	3, 560, 000	5, 558, 300	55, 200	726, 800	9, 900, 300	18.
Places 75,000 to 400,000	12.43	19. 10	31. 53	673, 900	1, 035, 000	10, 300	192, 600	1, 911, 800	3.
Chicago	11.93	19.48	31. 41	6, 096, 100	9, 949, 700	98, 900	5, 565, 000	21, 709, 700	40.
State totals and averages.	11. 23	17. 20	28. 43	18, 447, 200	28, 246, 700	280, 700	7, 174, 500	54, 149, 100	100.

In addition to data on mileage and gasoline consumption table 14 also gives the total payments of gasoline tax, and the payments per vehicle. The amounts given as gasoline-tax payments do not equal the gallonage consumed multiplied by the tax of 3 cents per gallon. The reason for this apparent discrepancy is that the figures as to gallonage, average mileage, etc., are those obtained from the 1931 questionnaire; while the average tax paid is the actual net 1930 tax collected, apportioned on the basis of the facts as to allocation determined by this study. It is evident that there should be no great change between one year and the next in the proportionate amount of travel in the various groups of places, and the figures as given are, therefore, regarded as representative.

As shown in table 14, the average gasoline tax paid by automobiles was \$15.87; that paid by trucks and busses was \$26.45. The average for all motor vehicles was \$17.20. The amount of gasoline tax paid per vehicle increases rather steadily as the place of residence becomes more urban, township vehicles paying only \$11.41, while Chicago vehicles paid \$19.48.

It will be observed that trucks and busses, which contributed only 13.0 percent of the traffic, paid 19.3 percent of the gasoline taxes.

The proceeds of the gasoline tax are used entirely for State and county highway programs. Two thirds of the tax is retained by the State and the balance returned to the counties. The county share of the gasoline tax may be used either on current highway programs or for the retirement of bonds. The payment of the allotments to counties is under the jurisdiction of the Illinois Division of Highways. Counties cannot receive their allotments until complete plans for the disposition of these funds have been submitted to the Division of Highways and approved by it.

TOTAL MOTOR-VEHICLE PAYMENTS SHOWN

The distribution, according to place of ownership, of all registration fees and gasoline taxes paid by owners of motor vehicles is shown in table 15. Both total and per-vehicle figures are given. In addition to the license fees and the gasoline tax, the State imposes an "oil-inspection fee" at the rate of 1 cent per 100 gallons; and various municipalities impose privilege taxes, which are known as "wheel taxes", upon motor vehicles. These payments are also shown; so that table 15 gives the total af all imposts upon motor vehicles and their use in Illinois in 1930.

DATA ON MOTOR-VEHICLE TAXES AND TRAVEL SUMMARIZED

Tables 16 and 17 summarize the relationships between population, vehicles registered, registration fees and

Table 16.—Percentage comparison of the several classes of local government unit as to population, motor vehicles registered, motor-vehicle taxes paid, and share of total State traffic contributed by vehicles owned in these places

Unit of Government	Popu- lation	Motor vehicles regis- tered	Regis- tration fees paid	Gaso- line taxes paid	Regis- tration fees and gasoline taxes paid	All motor vehicle im- posts 1 paid	Contri- bution to total traffic
Townships	Percent 17, 61	Percent 13. 4	Percent 12. 4	Percent 8. 9	Percent 10. 3	Percent 8.9	Percent 10. 5
Places up to 2.500	8, 53	16.8	15. 0	15. 5	15. 3	13. 4	17. 2
Places 2,500 to 15,000		17.0	16. 6	17. 1	16. 9	15. 8	18. 3
Places 15,000 to 75,000	14.66	18.4	19.3	19.6	19. 5	18.3	19. 5
Places 75,000 to 400,000		3. 3	3.7	3. 7	3. 7	3.5	3. 4
Chicago	44. 25	31. 1	33.0	35. 2	34. 3	40. 1	31. 1
Total	100, 00	100.0	100.0	100. 0	100.0	100.0	100.

Includes oil-inspection fees and wheel taxes,

Table 17.—Percentage comparison of the several groups of counties as to population, motor vehicles registered, and motorvehicle taxes paid

County group	Popula- tion	Motor vehicles registered	Registra- tion fees paid	Gasoline taxes paid	Registra- tion fees and gaso- line taxes paid
1	Percent 52, 19	Percent 39. 4	Percent	Percent 43. 2	Percent 42.7
2	21.74	24.3	25. 6	25. 8	25. 7
3	14.30	19. 4	17.9	17.3	17.5
4	9.39	13.8	12.1	11. 2	11.6
5	2. 38	3. 1	2.5	2.5	2. 5
Total	100.00	100.0	100.0	100. 0	100.0

gasoline taxes paid, and traffic, which have been brought out in the preceding paragraphs. Table 16 shows comparisons between the various classes of local government unit; in table 17 the groups of counties are compared.

From these tables and those previously given the

following conclusions have been derived:

1. The townships, with 17.61 percent of the population, contained 13.4 percent of the registered motor vehicles; motor-vehicle owners in the townships paid 10.3 percent of the motor-vehicle registration fees and gasoline taxes and contributed 10.5 percent of the total traffic of Illinois vehicles.

2. Incorporated places other than Chicago, with 38.14 percent of the population, contained 55.5 percent of the registered motor vehicles; motor-vehicle owners in these places paid 55.4 percent of the motor-vehicle registration fees and gasoline taxes, and contributed 58.4 percent of the total traffic of Illinois vehicles.

3. Chicago, with 44.25 percent of the population, contained 31.1 percent of the registered motor vehicles;

motor-vehicle owners in Chicago paid 34.3 percent of the motor-vehicle registration fees and gasoline taxes and contributed 31.1 percent of the traffic of Illinois vehicles.

4. Of all imposts on motor vehicles, the owners of motor vehicles in the townships paid 8.9 percent; those in incorporated places other than Chicago paid 51.0 percent; and those in Chicago paid 40.1 percent.

5. The average registration fee paid was \$11.23; the average gasoline tax payment, \$17.20; the total, \$28.43. Both registration fees and gasoline tax payments were found to increase as the place of residence becomes more urban.

6. The average registration fee paid by passenger automobiles was \$9.63; by trucks and busses, \$22.38. The average gasoline-tax payments by passenger automobiles were \$15.87; by trucks and busses, \$26.45. Thus the average payments in registration fees and gasoline taxes were: passenger automobiles, \$25.50; trucks and busses, \$48.83.

7. The owners of motor trucks and busses, which constituted 12.5 percent of the total registrations and contributed 13 percent of the total traffic of Illinois vehicles, paid 25 percent of the registration fees and 19.3 percent of the gasoline taxes.

SPECIAL ASSESSMENTS AND THEIR PLACE IN THE HIGHWAY PROGRAM

In Illinois as in many other States, in cities and in municipal communities, streets and other public im-provements are largely financed through special assessments. In Illinois cities in 1930, special assessments collected for highway purposes totaled \$56,260,200. At least \$50,000,000 of special-assessment highwayimprovement bonds were issued. Practically all the costs of paving streets in cities of 10,000 and over, and also in many places smaller than this, are met through special assessments.

The special assessment obligations, not being a part of the cities' financial affiairs, are not treated as a part of urban debt, and hence, are not subject to the salutary effects of debt limitation statutes. makes possible such situations as exist, for example, in Niles Center, an Illinois city of 5,007 persons, having a special assessment debt outstanding of \$10,208,900, or over \$2,000 for every man, woman, and child in the city. Or, as an extreme case, the village of Westchester, a subdivision in Cook County, with a population of 358 persons, has an assessed value of \$2,369,200 and special-assessment obligations outstanding of \$3,375,577, or nearly \$10,000 per capita. While this is exceptional, there are many Illinois cities which have special-assessment obligations outstanding of from 10 to 50 percent of their assessed valuation. For example, Lombard, in Du Page County, with an assessed valuation of \$4,812,900, had outstanding special assessment obligations of approximately \$2,750,000, or about \$450 per capita. Villa Park, in Du Page County, with a population of 6,220 and an assessed valuation of \$4,533,-900, had outstanding special assessment obligations of about \$4,000,000.

So far as is possible, these expenditures and receipts and debts have been assembled in this study. The highway expenditures include all of the public payments in Illinois for roads and streets, including those financed through special assessments.

With the exception of the Illinois Central charter line system, railroads pay upon the property allocated

taxes as are charged against other property in the community. This caused them to contribute in 1930 \$3,658,400 toward the local highway program.

Many Illinois cities charge wheel taxes, usually from \$3 to \$5 per vehicle, for the use of streets. Occasionally revenues are derived from franchises for the use of certain streets by utilities. Illinois urban communities derived \$7,174,500 from these sources within the year, of which \$5,565,000 was in the city of Chicago.

While motor vehicles in Illinois are subject to the personal-property tax, the lax administration of the law makes these taxes more of a theory than a fact. Probably more cars are omitted than are assessed, and those which are listed usually are valued at nominal amounts. No reasonably accurate figures as to this tax could be obtained without an unwarranted expenditure.

BONDED INDEBTEDNESS

All units of Government in Illinois may bond. the end of 1930 the total outstanding funded debt of the State and its subdivisions was \$959,238,400, and of this amount \$424,722,300, or 44.3 percent, was incurred for streets and highways. The remainder was distributed as follows: 8.6 percent for education, 43.5 percent for the protection of persons and property, and 3.6 percent for Government. In addition to the funded debt mentioned above, there were temporary borrowings outstanding of the city of Chicago of \$259,-013,000, which in all probablity will be eventually funded.

The State indebtedness stood at \$200,462,000, or a little over one fifth of the total public funded indebtedness, and of this sum \$148,010,000, or 73.8 percent, was incurred for the financing of highways. This is a selfliquidating debt now in the process of retirement, certain specific motor-vehicle receipts being set aside for

It may be explained that the purpose in creating a State highway system was to construct as rapidly as possible a 10,000-mile system of highly developed roads which would be planned to serve the transportation needs of the State and would be developed and maintained in an intelligent manner. The entire project was to be controlled by the State, and, with the exception of Federal-aid appropriations, financed by the State.

At the outset this system was financed through bond issues, the first issue being one of \$60,000,000 authorized in 1918, and a second of \$100,000,000 authorized in 1924. Of the total bond issues authorized of \$160,000,000, \$158,000,000 were sold. These bonds are now being retired. Forty-eight hundred miles of the State primary system were provided for by the first bond issue of \$60,000,000, and 5,000 miles additional by the \$100,000,000 The last of the bond-issue money, amounting program. to \$2,047,000, was expended in 1930.

The county indebtedness was comparatively small, consisting of \$49,990,000 for Cook County, and \$10,498,900 for all of the other counties in the State. only 20 of the 102 counties having any bonded indebtedness whatever. Of this county indebtedness, the major portion is for the highway program.

Municipalities had a total indebtedness of \$673,157, 100, by far the greater portion of this being in the form of special assessment bonds.

Townships had an indebtedness of \$25,130,400 which, by the tax commission to the community the same outside of school-district obligations, was practically entirely for township roads and was distributed widely throughout the State.

The total bonds outstanding on December 31, 1930 (\$959,238,400) were 12.4 percent of the assessed valuation of the State, and the per capita indebtedness was \$125.71. The per capita cost of all debt service in 1930 was \$15.42.

DERT SERVICE

Debt service consists of the interest and principal payments on indebtedness. In Illinois in 1930 the total debt-service payments were \$117,586,400, of which \$53,929,100, or 45.9 percent, were for highways; \$8,308,600, or 7.1 percent, for education; \$53,318,700, or 45.3 percent, for public benefit; and \$2,030,000, or 1.7 percent, for government.

With the exception of State payments, as a general rule about two thirds of the debt service consisted of interest payments and the balance, principal. Details are shown in table 18.

While per capita debt figures are given, in considering

in local conditions prevents a general average from having any great signifi-It is possible that cance. the debt presentation is not entirely complete. The major portion of the municipal indebtedness is in the form of special-assessment obligations, the records as to which are in extremely poor condition and difficult of access. The same condition is found with respect to the township obligations. Every reasonable effort has been used to obtain complete information as to indebtedness. It is believed that the percentage of the total which may have been omitted is extremely small.

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ILLINOIS EXPENDITURES IN 1930

The total expenditures for all purposes (exclusive of principal payments on bonds and loans) by all units of Government in Illinois in 1930 were \$551,249,500, of which \$166,298,900 was expended for highways and streets, \$167,599,300 for education, \$188,307,900 for public benefit, and \$29,-043,400 for other governmental purposes.

Expenditures by the State were \$91,079,500; by the counties, \$56,310,600; by Chicago, \$245,989,-600; by other incorporated places, \$120,479,200; by the townships, \$37,390,600.

Of the total expenditures, 19.4 percent was made in rural areas (townships); 5.9 percent in incorporated places having a population up to 2,500; 9.9 percent in places of 2,500 to 15,000 population; 10.8 percent in places of 15,000 to 75,000 population; 1.8 percent in places of 75,000 to 400,000 population; and 52.2 percent in Chicago.

Table 18.—Payments for debt service in 1930

Unit of government	Principal	Interest	Total
State Per capita Cook County Per capita All other units Per capita	\$4, 413, 000	\$8, 401, 300	\$12, 814, 300
	0. 58	1, 10	1, 68
	56, 099, 800	24, 764, 800	80, 864, 600
	14. 09	6, 22	20, 31
	16, 209, 300	7, 698, 200	23, 907, 500
	4. 44	2, 11	6, 55
TotalPer capita	76, 722, 100	40, 864, 300	117, 586, 400
	10. 06	5. 36	15, 42

delinquent. Furthermore, tax levies and expenditures can never agree because of a difference in the time element. Taxes are levied to meet anticipated expenditures and also to defray costs which have been incurred in the past and defrayed through revenues received from the sale of securities and other borrowings. Expenditures are made out of funds received from current taxes, from surpluses, from balances on hand, and from borrowings.

Where old indebtedness is being retired and comsuch figures caution should be observed. Wide variance paratively few new obligations are incurred, taxes

will normally exceed ex-Where curpenditures. rent work is to a considerable extent financed through borrowings, then expenditures will exceed

Table 19 itemizes the actual expenditures by units of Government with a per capita distribution of expenditures for the four major governmental purposes.

The various governmental agencies of the State perform various functions of publicservice. The State assumes the support of the through State highway system. This item and public benefit are major items of State expenditures. The public benefits adminis-

tered by the State are correctional and public health institutions for the treatment of persons from all parts of the State; relief of catastrophes, such as droughts, floods, and wars; and State regulatory and conservation bodies. The educational activities of the State

GENERAL EXPENDITURES ANALYZED

The total of all public charges levied against persons and property in Illinois for collection in the year 1930 was \$582,407,100, or \$76.32 per capita. The total of all expenditures for the same year was \$551,249,500, of which amount \$166,298,900, or 30.1 percent, was expended for highways; \$167,599,300 or 30.4 percent, for education; \$188,307,900, or 34.2 percent, for public benefit and protection; and \$29.043,400, or 5.3 percent, for government.

These expenditures include \$40,864,300 in interest payments on funded indebtedness, as well as interest on the short-term borrowings of municipalities. The principal payments of \$76,722,100 are not included, as they represent repayments of funds charged as

expenditures in previous years. There can be no exact agreement between receipts and expenditures. In the first place the amounts shown as taxes are the amounts levied. Eventually, practically all of these sums undoubtedly will be collected. For any one particular calendar year, however, it is possible that comparatively large sums may remain

Table 19 .- Total expenditures in 1930 by the State, the counties, and the local units of government; and per capita expenditures by purpose

				P	er capit	a	
Expended by-	Amount	Per- cent	High- ways and streets	Edu- cation	Pub- lic bene- fit	Gov- ern- ment	Total
State	\$91, 079, 500 56, 310, 600	16. 5 10. 2	\$5.30 2.21	\$1.32 .02	\$4.80 3.79	\$0.52 1.36	\$11. 94 7. 38
Townships	37, 390, 600	6.8	6.65	19. 29	1.03	. 86	27. 83
Places up to 2,500 Places 2,500 to 15,000	23, 404, 300 42, 727, 400	4.2 7.8	7. 13 9. 16	17.89 21.35	8. 99 12. 75	1. 93	35. 94 44. 99
Places 15,000 to 75,000	46, 701, 000	8.5	8, 02	20. 56	11. 42	1.75	41.7
Places 75,000 to 400,000	7, 646, 500	1.4	10.05	16.03	13.09	.90	40, 07
Chicago	245, 989, 600	44.6	22.47	21.75	26. 10	2. 53	72.8
Total	551, 249, 500	100.0	21.79	21, 96	24, 68	3.81	72. 2

Table 20 .- Percentage relationships of expenditures by units of Government and by purpose

	Percentages of expenditures of the units of Gov- ernment for the purposes indicated					Percentages of the total expenditure for each pur- pose made by each unit of Government				
Expended by—	High- ways and streets	Educa- tion	Public benefit	Govern- ment	All pur- poses	High- ways and streets	Educa- tion	Public benefit	Govern- ment	All pur- poses
State	44. 4 29. 9 23. 9 19. 8 20. 4	11. 1 . 3 69. 3 49. 8 47. 5	40. 2 51. 4 3. 7 25. 0 28. 3	4. 3 18. 4 3. 1 5. 4 3. 8	100. 0 100. 0 100. 0 100. 0 100. 0	24. 3 10. 1 5. 4 2. 8	6. 0 . 1 15. 5 7. 0 12. 1	19. 5 15. 4 . 7 3. 1 6. 4	13. 6 35. 7 4. 0 4. 3 5. 7	16. 10. 6. 4. 7.
Places 15,000 to 75,000. Places 75,000 to 400,000.	19. 2 25. 1 30. 8	49. 2 40. 0 29. 9	27. 4 32. 7 35. 8	4. 2 2. 2 3. 5	100. 0 100. 0 100. 0	5. 4 1. 2 45. 6	13. 7 1. 8 43. 8	6. 8 1. 3 46. 8	6. 7 . 6 29. 4	8. 1. 44.
Total	30. 1	30. 4	34. 2	5. 3	100. 0	100. 0	100. 0	100.0	100. 0	100.

are primarily the conduct of institutions of higher learning. Under the heading "Government" are included the primary executive and administrative charges of the various units.

A general distribution of expenditures under the four heads and by various units of government, expressed in percentages, is conveniently shown in table 20.

The distribution of expenditures according to the classes of local unit in which they were made is shown, in per capita form, in table 21.

Table 21.—Per capita expenditures by purpose and by classes of local unit in which the expenditures were made

Expended in—	Streets and high- ways	Educa- tion	Public benefit	Govern- ment	Total
Townships	1 \$46. 72	\$20. 25	\$9.53	\$2.70	1 \$79, 20
Places up to 2,500	9. 66	19.07	17. 57	3. 65	49, 95
Places 2,500 to 15,000	10.43	22, 48	21, 13	3, 58	57. 62
Places 15,000 to 75,000	8. 26	21.70	19.82	3. 59	53. 37
Places 75,000 to 400,000	10.06	17. 47	21, 78	2.79	52. 10
Chicago	1 22. 56	23.08	35. 07	4. 57	1 85. 28
Total	21.79	21.96	24. 68	3. 81	72. 24

¹ These figures differ slightly from corresponding values given in the report published by the State of Illinois. For explanation, see footnote 5.

TABLES SHOW RELATIONS BETWEEN VALUATION, TAXATION, EXPENDITURES, AND OTHER FACTORS

The study disclosed interesting relationships among the factors of taxation, expenditures, valuation, population, etc. The valuation, taxation, and expenditures per capita in 1930 are shown in table 22.

Table 22.—Per capita valuation taxation, and expenditures in 1930, in the various classes of local unit and in the State as a whole

Unit of government	Valuation	Taxation	Expendi- tures	Ratio of per capita ex- penditures to per capi- ta taxation
Townships Places up to 2,500	\$1, 494 712	\$53, 22 58, 37	1 \$79, 20 49, 95	1 1.48
Places up to 2,500	713	69. 05	57, 62	. 83
Places 15,000 to 75,000	778	65, 92	53, 37	.81
Places 75,000 to 400,000	906	63. 24	52. 10	. 82
Chicago	1, 045	95. 21	1 85. 28	1, 90
Entire State	1, 012	76. 32	72. 24	. 95

¹ These figures differ slightly from corresponding values given in the report published by the State of Illinois. For explanation, see footnote 5.

The ratio of per capita expenditures to per capita taxation is a rather accurate index of the flow of State (including Federal) and county aids to the less populous areas, except as affected by abnormal borrowings.

For instance, in the townships per capita expenditures exceeded per capita taxation by \$25.98, or about 33 percent. Expenditures in municipalities, on the other hand, were less than taxes and this difference would be even greater (particularly in Chicago) if borrowings were also considered as a source of revenue. Table 22 indicates in general this shift in funds.

Table 23 gives percentage relationships between population, motor-vehicle ownership, valuation, taxes payable, and expenditures made in the several classes of local unit in 1930.

Table 23.—Percentage distribution of population, motor-vehicle ownership, property valuation, taxes paid, and expenditures made in the several classes of local unit in 1930

Unit of government	Popula- tion	Motor- vehicle owner- ship	Valua- tion	Taxes paid	Expendi- tures made
T 1	Percent	Percent	Percent	Percent	Percent
Townships	17. 6 8. 5	13.4	26, 0	12.3	19.4
Places up to 2,500		16.8	6.0		5.9
Places 2,500 to 15,000	12.4	17. 0	8.8	11. 2	9.9
Places 15,000 to 75,000	14.7	18.4	11.3	12.7	10.8
Places 75,000 to 400,000	2. 5	3. 3	2.2	2.1	1.8
Chicago	44. 3	31. 1	45. 7	55. 2	52.2
Total	100.0	100.0	100.0	100.0	100.0

HIGHWAY EXPENDITURES DISCUSSED IN DETAIL

There was expended on all highways and streets in Illinois in 1930 a total of \$166,298,900, which exceeded the total taxes imposed for highways by \$16,032,200. The total expenditures were divided as follows: On the State highway system, \$40,421,100, or 24.3 percent; on the county systems, \$16,840,100, or 10.1 percent; on the local roads, \$8,937,500, or 5.4 percent. Street expenditures by municipal authorities were as follows: On Chicago streets, \$75,873,300, or 45.6 percent of the State total; and on other streets, \$24,226,900, or 14.6 percent.

The sum of \$3,155,000 was spent by the Division of Highways on parts of the State trunk system lying within the limits of incorporated places; of this amount \$22,500 was spent in Chicago. In addition, Cook County expended \$265,400 on streets in Chicago which form a part of the county trunk system.⁵

Adding these amounts to the amounts expended by the municipalities themselves, we find that the total spent on urban streets was \$103,520,600; the total expenditures on rural roads being \$62,778,300.

⁴ At the time of preparation of the "Master statistical tables", which form a part of the full report published by the State of Illinois, the expenditures of Cook County in Chicago could not be ascertained. For this reason there are slight differences negligible in effect, between figures given in tables 21, 22, and 25 and corresponding figures in the full report.

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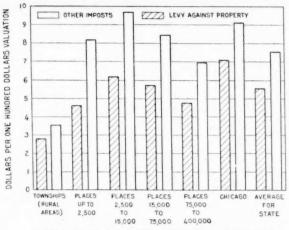
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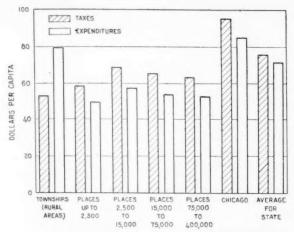
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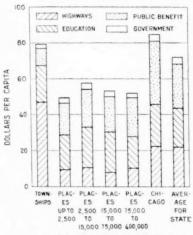
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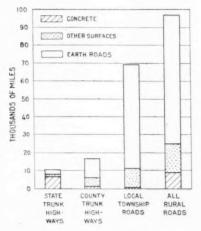
AVERAGE TAX RATES ON GENERAL PROPERTY IN THE SEVERAL CLASSES OF LOCAL UNIT AND THE STATE AS A WHOLE, AND RATES REQUIRED IF ALL TAXES WERE LEVIED ON GENERAL PROPERTY (TABLE 6)



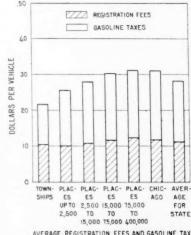
PER CAPITA TAXES AND PER CAPITA EXPENDITURES IN THE SEVERAL CLASSES OF LOCAL UNIT AND THE STATE AS A WHOLE (TABLE 22)



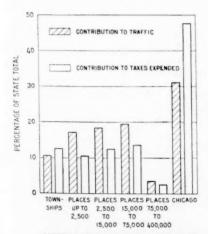
PER CAPITA EXPENDITURES BY PURPOSE IN THE SEVERAL CLASSES OF LOCAL UNIT AND THE STATE AS A WHOLE (TABLE 21)



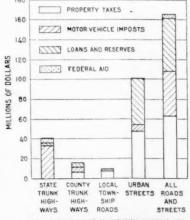
TOTAL MILEAGE OF RURAL HIGHWAY SYSTEMS AND SURFACED MILEAGE BY TYPES (TABLE 1)



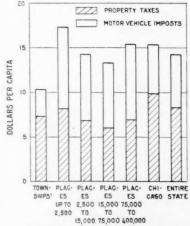
AVERAGE REGISTRATION FEES AND GASOLINE TAX PAYMENTS BY MOTOR VEHICLE OWNERS IN THE SEVERAL CLASSES OF LOCAL UNIT AND IN THE STATE AS A WHOLE (TABLE 15)



COMPARISON BETWEEN THE CONTRIBUTIONS BY MOTOR VEHICLES DOMICILED IN THE SEVERAL CLASSES OF LOCAL UNIT TO THE TOTAL TRAVEL OF ILLINOIS VEHICLES, AND THE CONTRIBUTIONS BY TAXPAYERS IN THESE SAME UNITS TO CURRENT TAXES EXPENDED ON ROADS AND STREETS (TABLES 14 AND 27)



TOTAL EXPENDITURES ON HIGHWAY SYSTEMS AND URBAN STREETS SHOWING SOURCES OF FUNDS (TABLE 27)



PER CAPITA CONTRIBUTIONS BY RESIDENTS OF THE SEVERAL CLASSES OF LOCAL UNIT TO CURRENT TAX-ES EXPENDED ON ROADS AND STREETS (BASED ON TABLE 27)

GRAPHICAL SUMMARY OF ESSENTIAL FACTS DISCLOSED BY SURVEY OF ILLINOIS FINANCES IN 1930

All expenditures on the State highway systems were made under the supervision of the Division of Highways, and the total of these expenditures was \$40,421.-100. A survey 6 conducted by the State of Illinois indicates that the total annual traffic is in the neighborhood of 3,419,000,000 vehicle-miles. The expenditures on the State system were, therefore, approximately 1.18 cents per vehicle-mile.

The total expenditures for construction and mainte-

maining expenditures, representing general undistributed overhead of the highway department and the interest on State highway bonds, totaled \$8,466,-800. Table 24 gives the distribution of construction and maintenance expenditures among the subdivisions of the State sys-

Table 25 gives amounts expended for streets and highways in the several classes of local unit. Of the \$62,778,300 expended in the townships (i.e., on rural roads), \$37,-266,100 was expended by the Division of Highways on the State system; \$16,-574,700 by the counties on the county trunk system; and \$8,937,500 by the local authorities on the local (township) roads.

EXPENDITURES AND TAXES FOR STREETS AND HIGH-WAYS COMPARED

Table 25 also gives, for purposes of comparison, the street and highway taxes paid (or payable) by taxpayers and motorvehicle owners in the several classes of local unit. These figures were previously given in table 8. The last column of table 25 gives the ratio of expenditures to taxes.

There was spent upon the rural highway system, \$62,778,300. The rural units of government con-tributed in all forms of highway taxes, \$16,996,900. In other words, the highway expenditures in the

townships were 369 percent of the revenues derived from these units of government. This shows a decided flow of revenues from the villages and cities toward the rural areas. The conclusion should not be hastily drawn that this represents an unfair subsidizing of the rural districts at the expense of the urban communities. It is well known that a large portion of the traveling

done by urban vehicles is in the rural areas, particularly on the State highways. Furthermore, the transportation facilities provided by good rural roads have decided influences upon urban commercial enterprises. The benefits received by the cities as a result of rural highway development tend to counterbalance the flow of revenues.

As a general rule, the less dense the population of the county, the greater its percentage of gain in the comparison of expenditures with taxation. While the townnance on the State system were \$31,954,300. The re-ships in each county invariably received more in expendi-

tures than they paid in taxes, the reverse was true for practically every group of incorporated places.

To avoid incorrect conclusions, such facts must also be carefully examined. For example, in the case of Chicago, it can be seen that the city paid \$70,913,600 in highway taxes and that the expenditures were \$76,161,200. It would seem, therefore, that the city of Chicago received more than it paid. but such is far from the case. During the year, Chicago incurred temporary and long-term indebtedness for highway purposes of \$41,491,000. Actually, Chicago contributed about \$18,995,400 to the State and county highway programs and there was expended by these agencies within the city the

total amount of \$287,900. It is also incorrect to assume that because Chicago contributed this \$18,995,400 to the State and county and received but \$287,900 in the form of expenditures, the difference necessarily will be spent in other communi-Various State and ties. county highway funds are created from the highway receipts. It is easily possible that a community may in one year make a contribution to a fund and in the next year receive a benefit from that fund in the form of an expenditure. This is especially true of payments made

in the later months of the calendar year.

In considering revenues as compared with expenditures, it is also important to remember that there is a natural lag between the revenues and the expenditures.

SOURCES OF REVENUES FROM WHICH FUNDS WERE DERIVED FOR 1930 HIGHWAY EXPENDITURES

The first classification of the source of funds is by the governmental agency whose act made the funds available. These funds so classified are presented in table 26.

RELATIONS BETWEEN HIGHWAY TAXES PAID, HIGHWAY EXPENDITURES, AND TRAVEL

The total mileage of rural highways in Illinois in 1930 was 97,234. The State highway system consisted of 10,098 miles, divided into 6,976 miles of Federal-aid highways and 3,122 miles of other State trunk highways. The county highway system contained 17,369 miles, and the local township roads, 69,767 miles. No data are available on

mileage of village and city streets.

The total volume of traffic (exclusive of out-of-State vehicles) on all roads and streets in Illinois during the year 1930 was approximately 14 billion vehicle-miles, of which 10.5 percent was produced by vehicles of rural ownership; 17.2 percent by vehicles owned in incorporated places having a population up to 2,500; 18.3 per cent by vehicles owned in places of 2,500 to 15,000 population; 19.5 percent by vehicles owned in places of 15,000 to 75,000 population; 3.4 percent by vehicles owned in places of 75,000 to 400,000 population; and 31.1 percent by vehicles owned in Chicago.

Expenditures on the State highway system in 1930 were \$40,421,100; on the county systems, \$16,840,100; on the local (township) roads, \$8,937-500; on Chicago streets, \$75,873,300; and on other

streets, \$24,226,900.

Of the total property taxes expended on all roads and streets, 10.9 percent was expended on county trunk highways; 13.8 percent on the local (township) roads; and 75.3 percent on urban streets.

Of the total motor vehicle taxes expended on all roads and streets, 72.8 percent was expended on State trunk highways; 11.5 percent on county trunk highways, and 15.7 percent on urban streets.

Of the total of all taxes and imposts expended on all roads and streets, rural property and motor vehicle owners paid 12.8 percent, and travel by rural vehicles made up 10.5 percent of the total travel on all roads and streets; city and village property and motor vehicle owners paid 87.2 percent, and travel by city and village vehicles made up 89.5 percent of the total travel.

⁶ Report of the Survey of Traffic on Illinois State Highways, August 1931 to Labor Day, 1932, State of Illinois, 1932, p. 19.

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Table 24.—Expenditures for construction and maintenance on the State highway system in 1930

	Construc expendit		Mainten expendit		Tota	1	Per- cent- age of
Highway system	Amount	Per- cent	Amount	Per- cent	Amount	Per- cent	total con- struc- tion and main- te- nance
Federal-aid (primary) Federal-aid (secondary) Other State highways	12, 913, 300			8.9	\$7, 753, 200 14, 174, 700 10, 026, 400	100. 0 100. 0 100. 0	24. 3 44. 3 31. 4
Total	28, 617, 000	89. 6	3, 337, 300	10.4	31, 954, 300	100. 0	100.0

Table 25.—Street and highway expenditures made in the several classes of local unit in 1930, and comparison of expenditures with charges imposed for streets and highways upon taxpayers and motor-vehicle owners in these classes of unit

Class of local unit	Street and t expendit		Street and	Ratio of expendi-
Ciuse of IoCai unit	Amount	Percent	highway taxes 1	tures to taxes
Townships. Places up to 2,500 Places 2,500 to 15,000 Places 15,000 to 75,000 Places 75,000 to 400,000 Chicago.	\$62, 778, 300 6, 294, 400 9, 907, 200 9, 237, 300 1, 920, 500 76, 161, 200	37. 7 3. 8 6. 0 5. 5 1. 2 45. 8	\$16, 996, 900 15, 059, 300 21, 479, 300 22, 114, 800 3, 702, 800 70, 913, 600	3. 66 . 42 . 44 . 42 . 55
Total	\$166, 298, 900	100. 0	\$150, 266, 700	1. 1

Table 26.—Funds expended on the several highway systems and the urban streets in 1930, and the approximate amounts and percentages of these funds provided by imposts made by the various governmental units, and by loan and reserve funds

	Gove	rnmental agen	ney providing f	unds		Percentage	D
Highway system and form of revenue	Federal government	State	Counties	Local governments	Total	of total cur- rent tax funds	Percentage of total funds
ate trunk highways:							
Federal-aid system:							
Loans or reserves.		\$2, 647, 600			\$2,047,000		
Current taxes	\$4, 089, 900	\$21, 592, 000			\$25, 681, 900	22.8	**
Total	\$4, 089, 900	\$23, 639, 000			\$27, 728, 900		
Percent	14.7	85. 3			100.0		
State bond-issue system:		00.0			100.0	*********	
Loans or reserves.	la constant	\$1,097,400			\$1,097,400		
Current taxes		\$11, 594, 800			\$1,097,400		
Total		\$12, 692, 200				10. 3	
Percent		100.0			\$12, 692, 200		7.
Entire State system:		100.0			100.0		
Loans or reserves		\$3, 144, 400			00 144 400		
Current taxes	\$4.089.900	\$33, 186, 800			\$3, 144, 400	*******	
Total.	\$4, 089, 900	\$36, 331, 200			\$37, 276, 700	33. 1	
Percent.	10.1				\$40, 421, 100		24.
ounty highways (State-aid);	10. 1	89. 9			100.0		
Loans or reserves.		01 00W 000					
Current taxes	11-41-4-4	81, 267, 900	\$3, 451, 900		\$4, 719, 800		********
Total		\$5, 256, 500	\$6, 863, 800		\$12, 120, 300	10.8	
Percent		\$6, 524, 400	\$10, 315, 700		\$16, 840, 100		
Percent ocal rural (township) roads:		38.7	61.3		100.0		
Loans or reserves.				\$265,000	\$265,000		
Current taxes				\$8, 672, 500	\$8, 672, 500	₹ 7.7	
Total			**********	\$8, 937, 500	\$8, 937, 500		5.
Percent		**		100.0	100.0		
Table Chicago.							
Loans or reserves				\$6, 369, 500	\$6, 369, 500		
Current taxes			d	\$17, 857, 400	\$17, 857, 400	15.8	
1.00(41				\$24, 226, 900	\$24, 226, 900		14
Percent hiergo streets; ²				100.0	100.0		
Loans or reserves				\$39, 104, 500	\$39, 104, 500		
The Laxes				\$36, 768, 800	\$36, 768, 800	32.6	
Current taxes Total Percent.				\$75, 873, 300	\$75, 873, 300	*************	
Percent			***********	100.0	100.0		
It touds and streets: Loans or reserves Current taxes Total.	1				20010		
Loans of reserves		\$4, 412, 300	\$3, 451, 900	\$45, 739, 000	\$53, 603, 200		
urrent taxes	34, 689, 900	\$38, 443, 300	\$6, 863, 800	\$63, 298, 700	\$112, 695, 700	100.0	
Total.	\$4, 089, 900	\$42, 855, 600	\$10, 315, 700	\$109, 037, 700	\$166 298, 900	100.0	
Percent	2.5	25. 8	6, 2	65. 6	100.0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	100.

Does not include expenditures by Division of Highways on streets which are part of the State trunk system.

Does not include expenditures by Division of Highways and Cook County on streets which are parts of the State and county systems.

It will be seen from the table that of all the revenues, State 25.8 percent. The State highway system, consisting of the Federal-aid highways and the Statebond-issue system, is supported jointly by funds provided by the United States and the State. The county highway system is a joint enterprise between the State and the counties, about two thirds of the funds being provided through the acts of county authorities. The

funds for rural roads and the city streets, except for those included as part of the other highway systems, are all provided through acts of the local officials.

Of the total expenditures for highways and streets, the Federal Government provided 2.5 percent and the \$4,089,900 was Federal-aid money, \$53,603,200 was derived from loans and reserves, and \$108,605,800 was spent out of current receipts from property taxation and motor-vehicle imposts. Table 27 gives the breakdown of this latter sum into payments by taxpayers and motor-vehicle owners in the several classes of local unit; and thus shows the contributions by each of these classes to the expenditures in 1930 on the several highway systems and the local streets. The Federal-aid money is naturally not subject to such an analysis; and the loans and reserves do not represent taxes paid in

Table 27.—Approximate amounts of the 1930 taxes and imposts expended on the current highway program, listed according to highway system, type of tax, and class of local unit in which the tax was paid

IMPOSTS ON GENERAL PROPERTY

					High	way system					
Paid by taxpayers in-	State tre	unk	County to	runk	Township	local	Urban st	reets	All highw	ays and st	reets
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	An ount	Percent	Percentage of total
Townships			\$3,051,700	30.9	\$6, 831, 700	69. 1			\$9, 883, 400	100.0	15. 7
Places up to 2,500			383, 900	7.1	739, 700	13.8	\$4, 257, 800	79. 1	5, 381, 400	100.0	8. !
Places 2,500 to 15,000			710, 700	11.0	833, 000	12.9	4, 922, 000	76.1	6, 465, 700	100.0	10.
Places 15,000 to 75,000				8.6		4.0	5, 872, 300		6, 718, 400	100. 0	10.
Places 13,000 to 73,000			578, 000		268, 100	1		87.4			
Places 75,000 to 400,000			132, 200	10.0			1, 195, 800	90.0	1, 328, 000	100.0	2.
Chicago			2,007,300	6.0			31, 203, 800	94.0	33, 211, 100	100.0	52.7
Total			6, 863, 800	10. 9	8, 672, 500	13. %	47, 451, 700	75.3	62, 988, 000	100.0	100.0
Townships		88.4	\$467, 800 814, 700	11.6					\$4,039,000	100.0	
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 15,000. Places 75,000 to 400,000. Chicago	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 282, 100	85. 2 78. 5 78. 7 76. 0 60. 3	814, 700 898, 900 1, 030, 300 194, 500 1, 850, 300	13. 7 12. 7 12. 5 12. 1 9. 9			\$68, 700 621, 400 726, 800 192, 600 5, 565, 000	1. 1 8. 8 8. 8 11. 9 29. 8	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 18, 697, 400	100. 0 100. 0 100. 0 100. 0 100. 0	8.1 13.15.1 18.6 3.4
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 282, 100	85. 2 78. 5 78. 7 76. 0	814, 700 898, 900 1, 030, 300 194, 500	13. 7 12. 7 12. 5 12. 1			\$68, 700 621, 400 726, 800 192, 600	8.8 8.8 11.9	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100	100. 0 100. 0 100. 0 100. 0	13. 15. 18. 3.
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 15,000. Places 75,000 to 400,000. Chicago	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 282, 100	85. 2 78. 5 78. 7 76. 0 60. 3	814, 700 898, 900 1, 030, 300 194, 500 1, 850, 300	13. 7 12. 7 12. 5 12. 1 9. 9			\$68, 700 621, 400 726, 800 192, 600 5, 565, 000	8. 8 8. 8 11. 9 29. 8	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 18, 697, 400	100. 0 100. 0 100. 0 100. 0 100. 0	13 15.1 18.6 3.1 41.6
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total.	5,071,400 5,565,900 6,468,200 1,228,000 11,282,100 33,186,800	85. 2 78. 5 78. 7 76. 0 60. 3	814, 700 898, 900 1, 030, 300 194, 500 1, 850, 300	13. 7 12. 7 12. 5 12. 1 9. 9	POSTS		\$68, 700 621, 400 726, 800 192, 600 5, 565, 000	8. 8 8. 8 11. 9 29. 8	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800	100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18 (3, 41 (
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total.	5,071,400 5,565,900 6,468,200 1,228,000 11,282,100 33,186,800	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8	814, 700 898, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 83, 519, 500	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM	POSTS \$6,831,700	49.1	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500	8.8 8.8 11.9 29.8 15.7	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400	100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18 (3, 41 (100,
Places up to 2,500. Places 15,000 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400.000. Chicago. Total. Townships. Places up to 2,500.	5,071,400 5,565,900 6,468,200 1,228,000 11,282,100 33,186,800	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8	814, 700 898, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 83, 519, 500 1, 198, 600	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5	POSTS \$6,831,700 739,700	49.1	\$68,700 621,400 726,800 192,600 5,565,000 7,174,500	8. 8 8. 8 11. 9 29. 8 15. 7	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400 11, 336, 200	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 3, 41, 100,
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total Townships. Places up to 2,500. Places 2,500 to 15,000.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 282, 100 33, 186, 800 *** **3, 571, 200 5, 565, 900	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8	814, 700 888, 900 1, 930, 300 194, 500 1, 850, 300 5, 256, 500 83, 519, 500 1, 198, 600 1, 600, 600	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9	POSTS \$6, 831, 700 739, 700 833, 000	49. 1 6. 5 6. 1	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500 \$4, 326, 500 5, 543, 400	8. 8 8. 8 11. 9 29. 8 15. 7	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400 11, 336, 200 13, 551, 900	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 3, 41, 100,
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total Townships. Places up to 2,500. Places 2,500 to 15,000. Places 2,500 to 15,000. Places 15,000 to 75,000.	5, 071, 400 5, 565, 900 6, 468, 200 11, 228, 000 11, 282, 100 33, 186, 800 	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8	\$14, 700 \$08, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 609, 600 1, 608, 300	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8	POSTS \$6, 831, 700 739, 700 833, 000 268, 100	49. 1 6. 5 6. 1 1. 8	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100	8. 8 8. 8 11. 9 29. 8 15. 7	5, 954, 800 7, 085, 206, 200 8, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400 11, 336, 200 13, 551, 900 14, 943, 700	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 3, 41, 100, 12, 10, 12, 13,
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total. Townships. Places 2,500 to 15,000. Places 15,000 to 15,000. Places 15,000 to 75,000. Places 15,000 to 75,000. Places 15,000 to 75,000.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 222, 100 33, 186, 800 \$3, 571, 200 5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8	\$14, 700 888, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 608, 300 326, 700	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8 11. 1	POSTS \$6, 831, 700 739, 700 833, 000	49. 1 6. 5 6. 1 1. 8	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100 1, 388, 400	8. 8 8. 8 11. 9 29. 8 15. 7	5, 954, 800 7, 086, 207 8, 225, 300 1, 615, 100 18, 697, 100 45, 617, 800 \$13, 922, 400 11, 336, 200 13, 551, 900 14, 943, 700 2, 943, 100	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13 15 18 3 41 100 12 10 12 13 2
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total Townships. Places up to 2,500. Places 2,500 to 15,000.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 222, 100 33, 186, 800 \$3, 571, 200 5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8	\$14, 700 \$08, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 609, 600 1, 608, 300	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8	POSTS \$6, 831, 700 739, 700 833, 000 268, 100	49. 1 6. 5 6. 1 1. 8	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100	8. 8 8. 8 11. 9 29. 8 15. 7	5, 954, 800 7, 085, 206, 200 8, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400 11, 336, 200 13, 551, 900 14, 943, 700	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13 15 18 3 41 100 12 10 12 13 2
Places up to 2,500. Places 15,000 to 15,000. Places 15,000 to 15,000. Places 75,000 to 400,000. Chicago. Total. Townships. Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 15,000 to 75,000. Places 15,000 to 400,000. Chicago.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 228, 000 33, 186, 800 33, 186, 800 \$3, 571, 200 5, 565, 900 6, 468, 200 11, 282, 100	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8 25. 6 44. 7 41. 1 43. 3 41. 7 21. 8	\$14, 700 88, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 608, 300 326, 700 3, 857, 600	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8 11. 1 7. 4	POSTS \$6, 831, 700 739, 700 833, 000 268, 100	49. 1 6. 5 6. 1 1. 8	\$68, 700 621, 360 726, 800 192, 800 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100 36, 768, 800	8. 8. 8. 8. 11. 9 29. 8 15. 7 38. 2 40. 9 44. 1 47. 2 70. 8	5, 954, 800 7, 086, 290 8, 225, 300 1, 615, 100 18, 697, 300 45, 617, 800 45, 617, 800 11, 336, 200 13, 551, 900 14, 943, 700 51, 908, 500	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 8, 3, 41, 100, 100, 12, 10, 12, 13, 2, 2, 47, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total. Townships. Places up to 2,500. Places 15,000 to 75,000. Places 15,000 to 15,000. Places 75,000 to 15,000. Places 75,000 to 400,000. Chicago. Total.	5, 071, 400 5, 565, 900 6, 468, 200 11, 228, 000 11, 282, 100 33, 186, 800 *** \$3, 571, 200 5, 565, 900 6, 468, 200 11, 282, 100 33, 186, 800	85. 2 78. 5 78. 7 76. 0 60. 3 72. 8 25. 6 44. 7 41. 1 43. 3 41. 7 21. 8	\$14, 700 888, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 608, 300 326, 700	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8 11. 1 7. 4	POSTS \$6, 831, 700 739, 700 833, 000 268, 100	49. 1 6. 5 6. 1 1. 8	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100 1, 388, 400	8. 8. 8. 8. 11. 9 29. 8 15. 7 38. 2 40. 9 44. 1 47. 2 70. 8	\$, 954, 800 7, 086, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400 11, 336, 200 13, 551, 200 14, 943, 760 2, 943, 160 51, 908, 500	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 8, 3, 41, 100, 100, 12, 10, 12, 13, 2, 2, 47, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
Places up to 2,500. Places 15,000 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total. Townships. Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 15,000 to 400,000. Chicago. Total. Total. Fotal. Total. Fotal.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 228, 000 33, 186, 800 33, 186, 800 5, 071, 400 5, 565, 900 1, 228, 000 11, 282, 100 33, 186, 800 4, 089, 900	25. 6 44. 7 41. 1 43. 3 41. 7 21. 8	\$14, 700 88, 900 1, 030, 390 194, 590 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 608, 300 326, 700 3, 857, 600 12, 120, 300	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8 11. 1 7. 4	POSTS \$6, 831, 700 833, 000 268, 100 8, 672, 500	49.1 6.5 6.1 1.8	\$68, 700 621, 400 726, 800 192, 600 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100 1, 388, 400 36, 768, 800 54, 626, 200	8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	5, 954, 800 7, 086, 200 8, 225, 300 1, 615, 100 45, 617, 800 45, 617, 800 11, 336, 200 13, 551, 900 14, 943, 500 2, 943, 100 51, 908, 500 108, 605, 800 4, 089, 900	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 6 3, 3, 41, 6 100, 3 100, 12, 10, 12, 13, 2, 47, 100, 100, 100, 100, 100, 100, 100, 10
Places up to 2,500. Places 2,500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago. Total. Townships. Places up to 2,500. Places 15,000 to 75,000. Places 15,000 to 15,000. Places 75,000 to 15,000. Places 75,000 to 400,000. Chicago. Total.	5, 071, 400 5, 565, 900 6, 468, 200 1, 228, 000 11, 228, 000 33, 186, 800 33, 186, 800 5, 071, 400 5, 565, 900 1, 228, 000 11, 282, 100 33, 186, 800 4, 089, 900	25. 6 44. 7 41. 1 43. 3 41. 7 21. 8	\$14, 700 88, 900 1, 030, 300 194, 500 1, 850, 300 5, 256, 500 \$3, 519, 500 1, 198, 600 1, 608, 300 326, 700 3, 857, 600	13. 7 12. 7 12. 5 12. 1 9. 9 11. 5 ALL IM 25. 3 10. 6 11. 9 10. 8 11. 1 7. 4	POSTS \$6, 831, 700 739, 700 833, 000 268, 100	49.1 6.5 6.1 1.8	\$68, 700 621, 360 726, 800 192, 800 5, 565, 000 7, 174, 500 84, 326, 500 5, 543, 400 6, 599, 100 36, 768, 800	8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	\$, 954, 800 7, 086, 225, 300 1, 615, 100 18, 697, 400 45, 617, 800 \$13, 922, 400 11, 336, 200 13, 551, 200 14, 943, 760 2, 943, 160 51, 908, 500	100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0 100. 0	13, 15, 18, 3, 41, 100. 100. 12, 13, 2, 47, 100

Of this sum, \$2,047,000 represents a balance from the highway bond issues. This amount will be repaid entirely through motor-vehicle imposts.

This amount represents unexpended balances from reserve funds and bond issues and also new borrowings. If the present policies are continued in the future, at least half of this amount will be retired from the counties' share of State motor-vehicle revenues and the balance from local property taxes.

These funds come primarily from new borrowings largely in the form of special assessments which will in all probability be retired through property imposts.

1930. However, information is given in the footnotes | levied for highway and street construction, almost all of table 27 regarding the provisions for retirement of the loans.

The data given in this table should not be confused with the information regarding street and highway tax levies given in the earlier part of this report, and in the report published by the State of Illinois. Tables 7 and 8, for example, give the total amounts levied for street and highway purposes in 1930. The funds so derived were expended in paying 1930 highway costs, in the retirement of indebtedness, and in the establishment of reserves for future work. Table 27 is concerned only with the amount spent on the current program in 1930. Thus it is shown in table 8 that the townships contributed 11.3 percent of the total street and highway levies in 1930; while table 27 shows that the townships contributed 12.8 percent of the current taxes expended in 1930 on streets and highways.

Property taxes expended for street and highway purposes approximated \$63,000,000; 75 percent of this amount was spent on urban streets. Motor-vehicle taxes were expended to the amount of more than \$45,000,000, of which approximately 73 percent was spent on State highways. Expenditures from loans and reserves exceeded \$53,000,000, with approximately 85 percent of this sum devoted to city and village streets.

It should be noted that the imposts on general property set forth in table 27 include special assessments

of such assessments being in incorporated areas.

STUDY OF SURVEY DATA SHOWS RELATIONSHIPS BETWEEN TAXES, TRAVEL, AND EXPENDITURES

The information given in table 27, when studied with reference to other data given in this report, makes it possible to arrive at definite conclusions regarding the relations existing in Illinois in 1930, between the following factors:

1. Taxes paid for highways by taxpayers in the several classes of local government unit;

2. The funds expended on the several highways systems and the local streets;

3. The relative contributions by motor-vehicle owners in the several classes of local unit to the total travel of Illinois vehicles in the State.

CONCLUSIONS

- 1. No funds raised from taxes on property are expended on State highways.
- Rural property pays no tax for urban streets.
- 3. Of the total tax on rural property expended for highway purposes:
 - (a) 30.9 percent was expended on county trunk highways;
 - (b) 69.1 percent was expended on local township roads.

Table 28.—Comparison of taxation and expenditures in Illinois in 1930

\$1,000 in	laxes			\$1,000 in ex	penditures		
Residents of—	Pay-	In-	Division by purpose	Subdivision by high- way system	Source of expenditures	Amount	Percent
Townships. Place up to 2,500. Places 2,500 to 15,000 Places 15,000 to 75,000 Places 75,000 to 400,000 Chicago.	\$96, 86 36, 51 72, 03 85, 33 14, 06 428, 92	General property taxes, \$733.71.	Education, \$304.03.	State highways, \$73.33	Taxes paid in— Townships	53. 73 7. 42	8. 83 73. 27 10. 13 7. 78
Townships. Places up to 2,500. Places 2,500 to 15,000 Places 15,000 to 75,000. Places 75,000 to 400,000. Chicago.	8, 29 12, 46 14, 67 17, 00 3, 28 37, 27	Motor vehicle taxes, \$92.97.	Highways, \$301.68 Public benefit, \$341.60.	County trunk highways, \$30.55. Township roads, \$16.21	Incorporated places Loans and reserves Taxes paid in—	15, 60 8, 56 12, 39	20, 90 51, 00 28, 00 76, 44 20, 60 2, 90
Townships. Places up to 2,500. Places 2500 to 15,000. Places 15,000 to 75,000. Places 75,000 to 400,600. Chicago.	16. 30 25. 90	Miscellaneous taxes, \$173.32.	Government, \$52.69.	Urban streets, \$181.59.	Taxes paid in— Townships. Incorporated places. Loans and reserves.	99, 10	

- 4. Of the total tax on urban property expended for street and highway purposes:
 - (a) 7.2 percent was expended on county trunk highways;
 - (b) 3.5 percent was expended on local township roads;
 - (c) 89.3 percent was expended on urban streets.
- 5. Since, of the total assessed property valuation of approximately \$7,719,000,000, 26 percent, or approximately \$2,007,000,000 was rural, and 74 percent, or \$5,712,000,000, was urban:
 - (a) Expenditures from property taxes for all highways and streets were at the following rates per \$100 of assessed valuation:

Rural—49.2 cents; Urban-93.0 cents.

(b) Expenditures from property taxes for county trunk highways were at the following rates:

Rural-15.2 cents per \$100; Urban-6.7 cents per \$100.

(c) Expenditures from property taxes for local township roads were at the following rates:

Rural—34 cents per \$100; Urban—3.2 cents per \$100.

(d) Expenditures from property taxes for urban streets were at the following rates

Rural-No tax;

Urban—83.1 cents per \$100.

- 6. Of the total property taxes expended on all roads: (a) 10.9 percent was expended on county
 - trunk highways; (b) 13.8 percent was expended on local township roads;
 - (c) 75.3 percent was expended on urban streets.
- classes of roads and streets:

al

- (a) Rural motor vehicle owners (residents of townships) paid 8.9 percent, and travel by these same rural owners made up 10.5 percent of the total travel on all classes of roads and streets:
- (b) Urban motor vehicle owners paid 91.1 percent, and made up 89.5 percent of the total travel.
- 8. Of the total motor vehicle imposts expended on all classes of roads and streets:
 - (a) 72.8 percent was expended on State trunk highways, including portions within urban areas;
 - (b) 11.5 percent was expended on county trunk highways;
 - (c) 15.7 percent was expended on urban streets.
- 9. Of all imposts and taxes expended on all roads and streets:
 - (a) 30.5 percent was expended on State trunk highways:
 - (b) 11.2 percent was expended on county trunk highways;
 - (c) 8.0 percent was expended on local township roads;
 - (d) 50.3 percent was expended on urban streets.
- 10. Of all imposts and taxes expended on all roads and streets:
 - (a) Rural property and motor-vehicle owners paid 12.8 percent, and travel by rural vehicles made up 10.5 percent of the total travel on all classes of roads and streets
 - (b) City and village property and motorvehicle owners paid 87.2 percent, and travel by urban vehicles made up 89.5 percent of the total travel.

FINAL COMPARISON OF TAXES AND EXPENDITURES

As a means of summarizing the general taxations 7. Of the total motor vehicle imposts expended on all and expenditures in Illinois in 1930, table 28 has been

(Continued on p. 56)

STATE GASOLINE TAXES, 1932 [Compiled for calendar year from reports and records of State authorities]

			,				Disposition	Disposition of grand total earning, according to law	earning, accor	ding to law		Tax rate, 1932	1932	motor vehicles, taxed	es, taxed
State	Gross tax assessed prior to	Exemption refund (de- ducted from	Exemption Net tax earn- refund (de- ing on motor ducted from vehicle fuel	Other receipts, under tax law (ii-	Grand total earning (tax and other	Collection	Construction	Construction and mainte- nance on rural roads	State and county Foad	On city	Other than	Cents per gallon	Date of rate	Net gallons	Percent
		gross (ax)		etc.)	receipts)	ministra- tion cost 2	State high- ways 3	Local roads 3	bond pay- ments 4	streets	burposes	Jan. 1 Dec. 31	change	laxed	Same
	605 000 509		87, 000, 502	8586	\$7,001.088	\$17,801	\$2, 465, 037	\$3,039,028	\$1, 479, 222			60 60	Nov. 5	136, 421, 624 58, 004, 441	
Arizona	3, 479, 597	\$579,376		689	2, 900, 920		1, 892, 298	1,008,622	7 3, 348, 997					86, 082, 940	1
Arkansas	5, 709, 727	3, 995, 950	36, 128, 854		36, 128, 854	8 18, 381	24, 051, 724			16 2169 940	s \$31, 967			136, 730, 489	1
Colorado	6, 134, 473	665, 253		100 -1	5, 469, 220		3, 785, 808			20105, 210				234, 229, 379	1
Connecticut	4, 687, 912	55,836	1,090,150	47, 924	1, 090, 150	(13)	685, 471		13 404, 679		15 9 079 683			207, 268, 239	1
Florida	508		508	22, 930	14, 531, 707		7, 956, 406	1, 989, 102	10, 215, 011		16 1, 989, 101			198, 980, 154	1 1
Georgia.	539,	262, 223	277,	9,568	2, 287, 295		1, 938, 510		17 328, 751		11 9, 142			958, 468, 356	
llinois	988	1, 234, 370	754	43	28, 754, 051		12, 496, 546			10 1, 041, 375				418, 489, 040	1
ndiana	10, 693, 343	1, 723, 206	8, 970, 137		8, 970, 137	157, 520	3, 713, 837	3, 498, 780	14 1, 600, 000					247, 349, 852	
Kansas	10, 204, 096 8, 202 880	2, 783, 601	7, 420, 495 8, 202, 889	3,216	8, 206, 105				1000		90 1 6500 144			014.	
Louisiana	8,300,840	118	8,300,722	01 37 273	8, 300, 722	62, 000 21, 808		2, 116, 239	3, 311, 120		1, 000, 111		-	105, 167, 540	'
Maine	4, 397, 400	401,929	7, 500, 232	21 44, 514	7, 500, 232		-			1, 482, 526	24 1 039 904			550, 642, 607	
sachusetts	16, 805, 808	286,	16, 519, 278	29, 283	20, 460, 611	23		4, 335,	3,000,000	1. 1. 2. 7. 3. 7. 4. 7. 4. 7. 4. 8. 7. 8. 7. 8.	26 29, 283			681, 044, 263 333, 351, 913	
Minnesota	352,	1, 351, 802	10,000,557	28	10, 000, 557	20	(C)	3, 333, 519 2, 429, 935	339, 053		30 215, 103	55.5	June 1	96, 732, 445	
Mississippi	9, 183, 199	233, 506	8, 949, 693	1	8, 949, 693			1	5.6 13.4		31 N9. 271			53, 803, 120	
Montana	3, 421, 504	731, 348	2, 690, 156		7, 809, 465			1,948,616				+ +		195, 236, 623	
Nevada	868, 091	974	727, 117		727, 117				659, 710			+		65, 971, 040	
New Hampshire	2, 710, 386	4, 346, 263	16, 617, 425	1					1, 260, 000	5, 000, 000	33, 090, 000	50 VC		43, 845, 055	
New Mexico.	2,362,264	170,011	2, 192, 253	18, 249	2, 210, 502	32, 610 s 50, 000	7 9, 415, 420	5	1, 170, 100		31 27, 167, 428	201	Mar. 1	1, 485, 127, 929	
New York	14, 124, 630	220, 984	13, 903, 646					4, 742,	au 6, 738, 538		6 229, 018	- m	19141411111	61, 190, 398	
North Dakota	2, 842, 042	-	1,835,712			140, 215		ź		6, 452, 862		**	G Ion 1	241, 527, 434	
Ohio	9, 661, 007	1, 604, 419	9, 661, 097	21, 345	9, 682, 442			CV.	43 1 055 450		1 21, 181			44 140, 066, 134	
Oregon	6, 315, 052	723, 877	5, 591, 175	511 000	5, 591, 175	2			- 04			62 0		1, 009, 663, 827	
Pennsylvania Rhode Island	2, 020, 740	166,715	1,854,025	3,686	1,857,711			716,385	285, 331			46		103, 748, 781	
South Carolina	6, 261, 560	36, 633	224		6, 224, 921 9 043 348	*	2, 921, 398		9			71		174, 083, 694	and the same
South Dakota	4, 174, 644	1, 211, 290	12, 185, 360		12, 185, 360		3, 285, 390	3, 458, 305	30 3, 631, 220		11 1, 729, 153 11 6, 765, 939	- 4		676, 593, 941	
l'exas.	30, 071, 589	3, 007, 831	27, 063, 758	757	27, 063, 758	5,317	2, 167, 352		(32)			4 4		54, 297, 788 46, 866, 212	
Vermont	1,874,648	£, 100	1, 874, 648		1,874,648		1, 589, 648	8	285, 000			200		216, 191, 996	
Virginia	11, 484, 414	1.282.691	10, 809, 600		11, 046, 510		8,837,	2, 200, 302	2000 00000 0					544	1 00 is
West Virginia.	5, 184, 836	243, 045	4, 941, 791	7,609	4,949,400	15, 626	7 846	3, 022, 477	14 1, 713, 404	10 597, 360	St 1, 727, 166	-		373, 710, 495	
W isconsin.	16, 346, 591	1, 398, 171	1,418,145	131 7	1, 418, 145	4		354,	112,000	2, 039, 678		# 04		174	
District of Columbia	2, 053, 901	18, 404	2, 050, 491	4, 101	as there's the			S S OF STREET	000 000 00	16 776 050	47 041 483	Weighted average rate.	rage rate.	14, 250, 173, 296	-7.
			China China	1 0001 6001	C14 138 000	2 832 820	301, 788, 231	94, 073, 954	50, 720, 352	16, 116, 050	31, 3711, TO	The state of the s			

- ¹ Net Easoline tax carned after deduction of refunds allowed by law.

 Anny States pay collection cost from other State funds, and such are noted.

 Administration cost includes balances allocated to reserve funds for administrative purposes, and amounts are most such as a serve funds for administrative purposes, and amounts are most such as a State that table covers the calcular year certaints. Fair not the actual collections during the year, these
- Willing gover aftertruit propose state and about as noted.

 * For State bitchway bounds, except as noted.

 * Ford state bitchway bounds, except as noted.

 * Ford father bitchway bounds, except as noted.

 * Includes \$1,024,000 payments on county; road bounds.

 * Ford father bitchway budget, \$6,661.

 * Replaced on States of Payments on county; road bounds.

 * For motor vehicle department receipts, \$30,000.

 * For motor vehicle department receipts, \$30,000.

 * For motor vehicle department receipts, \$30,000.

 * For State general fund.

 * For State general fund.

 * For State general fund.

 * For State general fund, \$15,000.

 * For State general fund, \$15,000.

 * To an equalization fund for public schools.

 * For State general fund, \$15,000.

 * Includes Receipts from 1-cent tax on gasoline not used in motor vehicles.

 * For Marker general fund, \$15,000.

 * To consists of \$830,072 for State propagation.

 * To consists of \$830,072 for State for state for system propagation.

 * To conservation department for oyster propagation.

 * For Metropolitan District Commission.

 * For Metropolitan District Commission.

 * Includes \$5,615 from dealer's licenses allocated to State general fund, and \$25,608 from aviation gasoline.

 * Includes \$6,617,430 special legal costs.

 * Includes \$6,617,600 for state general fund, and \$25,600 from aviation gasoline. is the calendar year earnings, but not the actual collections during the year, these swith similar columns in the financial tables, F-1 and F-4 issued by this burean, ods fixed by State and local agencies, also certain funds are allocated to bond non-

- The part by State appropriation, \$11,022

 The control of the problem of the probl

MOTOR-VEHICLE REGISTRATIONS, 1932

[Compiled for calendar or registration year from reports of State authorities]

Control of the cont		etainos ecos	ed motor ve	hicles in-	Other reg	_	rax-exem motor	pt of 11		umber of licel or permits	uses		istration; increase or decrease	rease or	To the contract of the contrac	.	
State Crimot total Diseaser Motor Crimot Crimot Crimot total Diseaser Motor Crimot		dividually owned	and com	mercially	vehic	_	motores	cles 3					fotor vehi	-	_	fotor	State
The control of the	State	Grand total	Passenger automo-	Motor trucks and road	Trailers				Totor- ycles D				umber			ucks, per- cent	
The control of the		and trucks	and busses	tractors			1			000	9 558				13.6		Alabama. Arizona.
The control of the		2	194 937	32, 234		604	403	916	20	7, 238	12, 244			101	-27.7	-23.5	'alifornia.
1, 197, 100 1, 198, 88 20,00 1, 198, 100 1, 198,	E	226, 471	80,089	14,848		203		436	1 024	275	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	043, 281	-		4.4	-6.5	Colorado.
Fig. 166 1,500 1	labama	136, 503	112, 587	23, 916		8, 338	502	17,514	(6)	2, 020	345, 311	308, 458			-4.3	2	Connecticut.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	rizolia	1, 971, 616	1, 738, 385	30,006		802	521	(0)	257	2, 607	411, 485	554,			3.0	0.00	Florida.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	alifornia	285, 860		53.347		2,060	140	544	93	559	900 69	323, 260			10.0	-9.1	Georgia.
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	olorado	343,007		7 9, 410			596	2, 987	96	2, 539	2, 192		-33, 124		1 1 2 2	-13.6	Idaho.
1, 65, 25, 25, 25, 25, 25, 25, 25, 25, 25, 2	onnecticut	22, 851		37, 574			869			1,8/1	377		- 16, 338		0.2-	8.6	Illinois.
Column C)elaware	280, 081	245, 666	42,050		_	263	1, 186	01	202	70, 788		-119, 212	9	6.7-	-6.3	Indiana.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	lorida	95, 325		13, 332		_	1,810	*******		2, 423	112, 496		68, 108		-9.5	-0.9	Kansas.
Control Cont	leorgia	1 493, 498	6-	181,715		_	586	0000	64	168	154, 110		54,809		9.6	10.5	Kentucky.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	(Janois	796,815	675,				424	9, 200	41	1,511	50, 486	207, 326	-34,061	-1	- 10.1	2	Louisiana.
Color Colo	Millors		600	_			999	009 6	120	7.58	9,771	263, 050	-20,302		- 10	8	Maine.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	DATA		452,	_			450				19, 600	188, 238	-16,481	6.0	0 1	-3.9	Maryland.
Marcolity Marc	Aansas		198			678	223	1, 791	19	1, 108	74,042	325, 372	05, 130	14.6	-5.2	-0.3	Massachuseurs.
String S	Kentucky	171 757	136,	_	*-	_	1,018		1, 500	2 454	1,014,635	840, 190	06, 179		-7.2	-11.8	Michigan.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	onisiana	291 945	286,	-	1,	_	1,301	4,000	OW	1,553		1, 230, 980	27,004	-	-4.9	-6.4	Miceissinni.
1, 18, 48 1, 18, 48 1, 19, 18 2, 28 1, 187 2, 28	Maine	801.906	698,	_	_	_	998			1.141		720, 401	34 555		-21.4	1.5.0	Mississip.
146,006 18, 187 18,	Maryland	1, 134, 808	1,000,	_	_		644	104 '1		2, 237	-	183, 000	-35,345		-5.9	4 4 4	Montana.
140,000 140,	Michigan	683, 39	281,	_			202	1.979	21	1, 733	4.2,	127, 166	-18,037		0.61	10.8	Nebraska.
100, 100 20, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 482 13, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	Minnesota	149,090	618	_		, L,	631	1, 410	0	465	000	416, 131	-40,415		-0.7	-2.2	Nevada.
37.5 (16) 37.5 (17) 37.5 (17) 37.5 (17) 37.5 (17) 37.5 (17) 37.5 (17) 47.5 (17) <t< td=""><td>Mississippi</td><td>717, 40</td><td>88</td><td>_</td><td></td><td></td><td>278</td><td>1,651</td><td></td><td>2, 200</td><td>1 1</td><td>32, 168</td><td>- 338</td><td></td><td>-5.1</td><td>-3.0</td><td>New Hampsime</td></t<>	Mississippi	717, 40	88	_			278	1,651		2, 200	1 1	32, 168	- 338		-5.1	-3.0	New Hampsime
18, 18, 19, 19, 18, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	Missouri	103, 12	322,	_	13,		116	555		503	129, 429	111, 510	10,01	-	-1.4	1.3	New Jersey.
1006,431 28, 141 18, 25 2, 865 2, 26 3, 26 4, 965 1, 10, 100 1, 11, 120 2, 207, 244 1, 11, 120 1,	Montana	31 83	25,	_		_		397		9 716	_	869, 867	4 558		-5.	1.0.3	New York.
557, S50 726, 201 13, 504 23, 38 1, 162 4, 455 14, 17, 206 -53, 042 -75 3, 485, 149 -53, 648 22, 236 1, 162 4, 451 17, 12, 206 -10, 17, 206 -11, 17, 207 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -11, 20, 20 -	Nebraska	106, 43						050		94	_	0 007 940	-55, 319	-2.4	1	1.6.1	North Carolina.
2. 24, 50 1, 50 3, 60 1, 50 3, 60 7.5 3, 60 1, 7, 12 3, 7, 12 3, 7, 12 3, 7, 12 3, 7, 12 3, 7, 12 3, 7, 12 3, 7, 12 1, 1, 12 3, 1, 12 1, 1, 12 1, 1, 12 1, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 1, 1, 12 3, 1, 12 1, 1, 12 1, 1, 12 3, 1, 12 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 13 1, 1, 1, 13 1, 1, 1, 13 1, 1, 1, 13 1, 1, 1, 13 1, 1, 1, 1, 13 1, 1, 1, 1, 13 1, 1, 1, 1, 13 1, 1, 1, 1, 1, 13 1, 1, 1, 1, 1, 1, 13 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Nevada Now Hampshire	857,85	77	-		_		92 326	1, 162	*	-	428, 737	-53,045	-12.4	77	13.8	North Dakota.
2.75,1.305 3.58,6.500 4.7.18 7.7.24 3.20 3.20 2.2.120 1.7.10 625 -12.1.10 1.1.3 -1	New Jersey	76,76	1 03	_				8, 929		rć.		171, 293	-17,72	-10.3	1 1	-12.0	Ohio.
153, 570 130, 650 122, 914 6, 58 6, 763 1, 164 12, 622 589 4, 420 124, 124 12, 622 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 623 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 64 12, 62 124, 131 12, 62 12, 62 124, 131 12, 62 12, 63 14, 63 12	New Mexico.	2, 241, 90	*	_							-	1, 710, 625	-121, 10	1113	-11	-10.8	Oklanoma.
1,500,524 1,50	New York	310,00	_			_				é		482, 725	104, 42	× 9	1	-0.4	Oregon.
Date of the color of the colo	North Carolina	1 589.52	-			08				417		278, 225	10, 02	4	14.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Phode Island.
conna 256, 271 1.250, 492 7, 885 2744 1, 89 116, 770 116, 770 11, 116, 770		428, 30	53	_		1,			1,375	9.	्रा	1, 741, 942	-4.47			16.5	South Carolina.
1864,022	Ohlo	259, 2	7 .			6	Ι,	-				903, 719	- 26, 69		7	-17.6	South Dakota.
unia 135, 400 157, 453 19, 867 2, 749 77 400 77, 729 1, 1, 102 71 400 74, 004 157, 453 19, 877 2, 871 1, 27, 300 74, 004 1, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200 2, 27, 200	Oregon 10	1,664,0	1,1	_	_			_				193, 025	-31,09		15	-7.5	Tennessee.
16, 183 19, 25, 25 19, 314 3, 184 4, 184 1, 1067 1, 197 310 34, 324 1, 1067 1, 20, 324 1, 32, 324	Pennsylvania	133, 4	-									350, 520	-51,80		1	-10.1	
288.713 287.727 81.437 81.4172 11.002	Rhode Island	161 9	_			_	_			6	-	1, 297, 301	105, 91			-4.6	_
1, 191, 324 1, 001, 675 183, 183 183 183 183 183 183 183 183 183 183	South Carolina	2.006	267,		_					ī		108, 358	6.08		1		_
99, 881	South Dakota	1 191.3	1,001,	_						31		83,871	1 × 1	- 2	1	zi i	Washington.
77, 585 69, 284 61, 784 61, 784 61, 785 71, 784 71, 785 71, 78	Tennessee	8.66	23									100, 661	13 25, 17			11.0	West Virginia.
370, 587 387 384 389 64, 511 4, 543 1,776 1,220 2, 652 168 6, 442 389 73, 249 -58, 597 -7.7 9 -58, 597 -7.7 9 -58, 597 247 389 183, 222 384 66 1,785 2,904 382 329 1,718 173, 519 -12, 922 -7.5 9 -2.8 9 183, 222 389 173, 718 173, 718 173, 719 173,	Texas		69,			ci		£ 14			1 1 1	253 308	-25.4	1	_	1	Wisconsin.
247, 804 183, 222 1, 106 2, 204 5.14 5.14 5.14 6.10 6.2 2, 804 73.14 6.14 6.89 1.2, 804 73, 71 1.73, 7	Voemoni	370, 5	308,			1,	Α,	60		6,		754, 249	- 59, 5	į	00	1	Wyoming.
227, 888 587, 906 604, 628 587, 906 61, 62, 244 51, 628 587, 906 604, 628 61, 628 61, 630 73, 711 173, 519 -12, 932 -7.5 -6.5 -6.7 160, 567 142, 890 17, 677 1 163, 648 92, 634 97, 730, 649 925, 832, 884 -1, 696, 605 -6.5 -6.7	Velmone	446,0	351,	_			_	ic		een .		62, 101	15,8	1	no o	-3	District of Colu
18. 25. 46. 380 9. 886 (*) 7. 677 689 1. 864 2. 712 689 2. 884 9. 25, 832, 884 -1, 696, 005 -6. 6 -6. 5 -6. 7 160, 567 142, 890 1. 67, 573 143, 696 92, 634 9. 25, 832, 884 -1, 696, 005 -6. 6 -6. 5 -6. 7	Washington	227.8	567			1/2		5				173, 519	-12,9	52 -1.	0		
30, 220 160, 567 142, 890 17, 677 001 188, 475 143, 646 9, 068 92, 634 9, 730, 649 19 25, 832, 884 -1, 0500, 000	West Virginia	694, 0	46		_		_	ce		7				B	- G	-6	
100,000	Wisconsin	90,	142	17,				-		600		113					
21. 400 July 21. 400	Wyoming	100,	1	4	A10 008	-				9							

1 This table lists only the number of registrations, licenses, and permits; for financial statement see p. 55, The first 3 columns show regularly registered motor cars and trucks, eliminating reregistrations, nonresident registrations, tax-exempt cars, etc., etc., at These official cars are exempted from paying regular registration fees and are excluded from "registered motor vehicles".

4 Busses are included with passenger cars, except as noted in next column.
5 No exemption of tax on official cars, which are included under registered cars.
8 Revised figure: Passenger cars revised to 302,594, and motor trucks revised to 52,227.
9 Russes included with trucks.

 Not registered.
 Estimate based on 1931 data.
 Estimate based on 1931 data.
 Data covers registration year ending June 30, 1932.
 Includes 11,636 light delivery cars used for both passenger and light freight service. passenger cars, 536 light delivery cars used for both passenger and light freight service. It Excludes 11,636 light delivery cars and trucks, January 1, 1932.

14 Includes 333 cars' a 4-large', not assignable to any State.

13 Revised total, see Connecticut as noted above.

MOTOR-VEHICLE RECEIPTS, 1932

				Regista	00	2 5 2		-			receipts 2	horities					
State	Total	Total and	Motor	Motor-car roosing		-		W	Miscellaneous receipts a	receipts a	-						
	receipts				67.6	Other	Other vehicles			-			Disposit	Disposition of gross receipts	receipts		
		m a	notor ca	Passenger cars and	Trucks	Proffee	Motor	Dealers'	_	d Other		Collee-	For h	For highway purposes	r poses		
Alabama 1 Arizona Arkansos	£3, 038, 206	1.		Dusses	tractors	A CALLETS		noenses		n miscel- s laneous		adminis- St.	State high- ways	Local	State and county	For other	* State
California Colorado Connection	9, 391, 366			\$297, 457 5, 952, 984	\$264, 907	\$24, 228	\$1,046	\$1,088	1	1			\$1,010.984	Change of the Ch	road bonds •		
Delaware	7, 953,	in the same		1, 309, 997	383, 160	345, 652	29, 692	36, 955	17, 333	_		28,063	534, 272	\$531, 686	\$1, 364, 587	***************************************	Alabama 2
Georgia	5, 267, 792		211	622, 079	1, 497, 997	17, 307	8, 538	20, 426	-		-	eri .	963, 648	2, 963, 647	2, 343, 284		Arkansas.
Illinois	1, 617, 261		-	3, 015, 725	730, 503	43, 500	6, 211	6, 421	-	403, 323	71.0	.9	6, 921, 363	924, 817	***************************************	\$1,817,590	California.
Indiana	6,966,682	-	-	6, 100	362, 042	12, 370	1,480	21,611			:	336	562, 056		\$ 456,340		Connecticut.
Kansas 1 Kentuok	11, 670, 688	-		4, 233, 005 9, 153, 065	. 453, 895	125, 329	16, 440	62, 420	23		7,091	273	1	198		9 4, 937,001	Delaware, Florida,
Louisiana	4, 650, 638	38 4. 470. 279	-	T Comp to	, 109, 025	35, 287	5, 710	56,846		187, 655	-	161	- 21	500,000	N 260 pm	131, 211	Georgia. Idabo
	4, 120, 002		-	3, 001, 678	293, 031 891 x3c		3,710	91 930	22, 855				1		0, 302, 613	61, 150, 000 6 150, 969	Illinois.
etts	3, 450, 38	36 2, 682,	6	-	-	136, 998	4, 1111	16, 505	59, 534	72,877	-	_	3, 424, 717 I.	800,000		12 373, 399	Indiana.
	19, 835, 71	1 18 127	358 2, 575	-	238, 270		7, 587	31 725				-		or9, 964	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Kansas. 2
9 E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2, 137, 953	9,940,872	572 8, 031, 572		023	475, 472	2, 219	10,350	2, 029, 270	497, 470	-		652, 852 484, 278		1, 704, 910	-	Louisiana.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9,824,564	4,010,	36 1.987		915		5,861	32, 385	518, 983 49, 645	646, 154	4 851, 324		181	1		-	Maryland.
Nevada	3, 349, 152	3, 250, 060	-	-	-		0/1	11, 185		107, 260	16	_	1	7, 000, 000 1,	-		Massachusetts.
	395, 440 2, 104, ook	-	808 282, 646			13, 186	784	16, 113	299	90 06		-		1, 799, 552	-		Minnesota.
0	15, 413, 228	11, 567, 111	i	-				2,696	**********	53, 273	100 850		-	250 047 4,	4, 919, 027	N	Mississippi.
	769,869		7, 573, 516			(11)		24, 789	282 746	2, 937			973, 889 2, 27	272, 407	*********	M	Montana Montana
	5, 444, 356	36,5	26,	-			505		3, 153, 394	614, 561	257,	1,	93		114, 839	Z.	Nebraska.
	1, 799, 973			-		201, 856 46,	503	1	2.966 619	22, 281			83	7, 310, 000	***		New Hampshing
	1, 789, 291		8 11, 610, 960	***************************************	5. NNP 266		* *	000 01	010,000	78, 416	20	0 13,002	249	1,363	1	_	New Jersey.
vania	9, 548, 171	5, 942, 758	4 860 400	-	-	416, 479 23,		64, 400	66 397	683	73,615		124	1, 674, 908 21 2 1	n 2 100 coc m	_	New Mexico.
	183 500	22, 313, 417		09 1,082	292	-	5.607	W	100 000	366, 987	545, 317		-		-	-	North Carolina
	2, 470, 470	2, 233, 083		-	100	5.9	-4	235, 495	25,690	522, 259	374, 840		931 2,729,896	896		North Ohio	North Dakota.
	872, 094	2, 386, 475		6 447	405	47, 706		13, 140		70, 874	1, 638, 870	-			2, 172, 722 6	-	Oklahoma, 2
	13, 154, 999	12, 333, 770	8,556,396					12, 340	103, 622	72, 276	65, 900	-		56, 191 5, 18	9		Pennsylvania
2,	2, 218, 413	1.910 900		-	144	289, 483 12, 9	970 32	218	200	25, 650	125, 606	484	00 1.890 684	Sed - 73 1, 592,	410	6 174, 278 Som	Rhode Island.
OC.		5, 869, 032		420,	671	100	010	-	542, 321	264, 237	741, 261	2,4	1	Lon.		. 1	South Dakota
uia		3, 778, 657		_	383				33, 959	30,318	64,346	2, 010, 3	8, 402, 797	1	- 1	191, 921 Ten	Tennessee.
Wyoming 8		10, 041, 978	7, 512, 588	861.	294	6, 566 4 548		31, 270	79.864	235, 400	385, 883	2, 218, 413	23	131	737, 500	Utah.	ý,
	-	167 291		2, 529,	892					140, 959	605, 628	1, 120, 589	9 373 590	20		Vermont	iont.
Detailed totals.	72 440	170', 071	142, 920	24, 401		209	-	1		124, 447	780, 656	322, 803		-	0	79, 800 Wash	Washington
Grand totale	259, 601, 319	9, 601, 319	(37)	(31)	0 000	-		2, 899	221, 133	475, 437	100	510, 44	2 2 065, 792	92 28 1, 140, 000	-	West	Virginia.
Contract of the contract of th					-						1000						

I Financial data only on this table; for number of registrations, etc., see p. 54.

* Complete details not reported.

* Fixed so which of figures are shown make State appropriations for administration.

* The state highway bonds except as noted.

* Fixed spayments on county bonds of \$699,074.

* Includes returns of \$202,872.

* Includes returns of \$212,832.

* For county school fund.

* For county school fund.

* For county school fund.

In For State general fund.

Includes \$373,399 for county general fund.

Includes \$312,028 for public safety department and \$35,000 for motor-vehicle-liability insurance expenses.

..... 17, 550, 422 155, 911, 962 75, 964, 336 39, 339, 980 35, 506, 810

Detailed totals.

Is Includes \$2,966,229 payments on county road bonds.
Is feed included with motor-far receipts.
Is feed included with motor-far receipts.
Includes \$3,160,00 for 1933 tags, advance payments.
Includes \$1,162 for administration from special state appropriation.
Includes \$1,162 for administration from special state appropriation.
Includes \$1,162 for appropriation from the state ferred fund.
Includes \$1,163,003 appropriation from the state for state for state for an includes \$1,140,003 for traffic commission.
Includes \$1,140,003 appropriate for county road bonds.
Includes \$1,140,003 appropriate for county road bonds.
Includes \$1,140,003 appropriate for county for form the state for form the state for streets and property taxes on motor vehicles.
Includes \$10,000 for street signals, and the remainder for streets as appropriated by Congress and bus receipts available for only 38 states and bisrict of Columbia which total as follows: Passenger car

(Continued from p. 51)

prepared. It shows a comparison between the sources of \$1,000 in taxes and the manner in which \$1,000 was expended, and is based on tables given previously in the report. The comparison, however, is not a direct one, for the \$1,000 unit cannot be identical for both taxes and expenditures. If it were desired to make the two sides of the tabulation balance exactly, as in the case of a true balance sheet, it would be necessary to include proceeds from bonds and loans on the left of the double line, and principal payments on the right, as well as to make due allowance for balances carried over and carried forward. The complete figures necessary for such a presentation are not available, so that expenditures as given cannot be said to balance receipts from taxes. It is believed, however, that table 28 gives a helpful picture of the relation between tax money received and actual expenditures in the year 1930.

PRICE INDICES SHOW TREND OF HIGHWAY CONSTRUCTION COSTS

On the cover of Public Roads this month there appears a chart showing the variation of price indices for highway-construction work from 1922 to the close of 1932. For the years from 1922 to 1930, inclusive, field which each covers.

the average price index for a given year is plotted directly under the symbol for that year. For 1931 and 1932 the average index for the fourth quarter is

given under the symbol for the year.

An extended discussion of the derivation of these indices will appear in a subsequent issue of Public ROADS. It may be desirable, however, to remark here that the general index—designated "composite mile" is an index in which the weightings assigned to the various items for which prices have been used in determining this index, are the amounts of these items which would have been used in building one mile of highway if that mile had contained an average amount of grading and an average footage of structures and had the surfacing been composed of gravel, macadam, concrete, etc., in amounts proportioned according to the average usage of these various surfaces. The base period used in determining both weightings and average base prices is the period 1925 to 1929, inclusive. The general index (composite mile) shows the trend in prices in the highway construction field taken as a

In addition to the general index, three subsidiary indices are shown-excavation (grading), surfacing, and structures. These indices indicate the price changes which have taken place in the more restricted

ROAD PUBLICATIONS of the BUREAU OF PUBLIC ROADS

Any of the following publications may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. As his office is not connected with the department and as the department does not sell publications, please send no remittance to the United States Department of Agriculture.

ANNUAL REPORTS

Report of the Chief of the Bureau of Public Roads, 1924. 5 cents.

Report of the Chief of the Bureau of Public Roads, 1927. 5 cents.

Report of the Chief of the Bureau of Public Roads, 1928. 5 cents.

Report of the Chief of the Bureau of Public Roads, 1929.

Report of the Chief of the Bureau of Public Roads, 1931. 10 cents.

Report of the Chief of the Bureau of Public Roads, 1932.

DEPARTMENT BULLETINS

No. 136D . . Highway Bonds. 20 cents.

No. 347D . . Methods for the Determination of the Physical Properties of Road-Building Rock. 10 cents.

No. 532D . . The Expansion and Contraction of Concrete and Concrete Roads. 10 cents.

No. 583D . . Reports on Experimental Convict Road Camp, Fulton County, Ga. 25 cents.

No. 660D . . Highway Cost Keeping. 10 cents.

No. 1279D . . Rural Highway Mileage, Income, and Expenditures, 1921 and 1922. 15 cents.

TECHNICAL BULLETINS

No. 55T . . Highway Bridge Surveys. 20 cents.

No. 265T . . Electrical Equipment on Movable Bridges. 35 cents.

MISCELLANEOUS CIRCULARS

No. 62MC . . Standards Governing Plans, Specifications, Contract Forms, and Estimates for Federal-Aid Highway Projects. 5 cents.

No. 93MC . . Direct Production Costs of Broken Stone. 25 cents.

No. 100MC. Federal Legislation and Regulations Relating to the Improvement of Federal-Aid Roads and National-Forest Roads and Trails, Flood Relief, and Miscellaneous Matters. 10 cents.

MISCELLANEOUS PUBLICATION

No. 76MP . . The results of Physical Tests of Road-Building Rock. 25 cents.

REPRINT FROM PUBLIC ROADS

Reports on Subgrade Soil Studies. 40 cents.

Single copies of the following publications may be obtained from the Bureau of Public Roads upon request. They cannot be purchased from the Superintendent of Documents.

SEPARATE REPRINT FROM THE YEARBOOK

No. 1036Y . . Road Work on Farm Outlets Needs Skill and Right Equipment.

TRANSPORTATION SURVEY REPORTS

Report of a Survey of Transportation on the State Highway System of Ohio (1927).

Report of a Survey of Transportation on the State Highways of Vermont (1927).

Report of a Survey of Transportation on the State Highways of New Hampshire (1927).

Report of a Plan of Highway Improvement in the Regional Area of Cleveland, Ohio (1928).

Report of a Survey of Transportation on the State Highways of Pennsylvania (1928).

Report of a survey of Traffic on the Federal-Aid Highway Systems of Eleven Western States (1930).

A complete list of the publications of the Bureau of Public Roads, classified according to subject and including the more important articles in PUBLIC ROADS may be obtained upon request addressed to the U. S. Bureau of Public Roads, Willard Building, Washington, D. C.

UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF PUBLIC ROADS

CURRENT STATUS OF FEDERAL-AID ROAD CONSTRUCTION

as of MARCH 31, 1933

	COMPLETED		UNDE	UNDER CONSTRUCTION	JCTION				APPROVED FOR CONSTRUCTION	R CONSTRU	CTION		BALANCE OF	
STATE	MILEAGE	Estimated	Federal aid	Percentage		MILEAGE		Estimated	Federal aid		MILEAGE		FUNDS AVAIL.	STATE
			- 1	completed	Initial	Stage!	Total	total cost	allotted	Initial	Stage 1	Total	PROJECTS	
Alabama Arizona Arkansas	2.322.7	\$ 5.661.042.13 2.694.546.83 4.313.869.76	2,830,520,94 1,058,660,39 2,039,695,13	253	166.9 86.0 115.2	195.1	272.0 263.7 177.4	96.966.34 64.714.98 1.550.273.37	8 28,283.17 12,942.99 775,081.32	139.9	6.3	9.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	3,195,356.06 112,435.64 830,315.04	Alabama Arizona Arkansas
California Colorado Connecticut	2,485.0 1,789.6 294.8	8,762,746.88 3,931,680,35 4,684,457.13	2,268,772,80 1,766,500,13 1,825,799,33	282	152.7	37.0	189.7	1, 324, 564, 46 312, 286, 04	126,877,45	2.00	3	2.65	114.372.99 282,511.30 97.238.46	California Colorado Connecticut
Delaware Florida Georgia	3,162.7	6,146,301.25 5,405,261.35	161,712,72 2,937,024,22 2,362,480,22	94	169.1	21.9	47.6 169.8 360.6	93,852.00 158,104,35 52,296,65	14,512.72	3.8		3.5.5.	1,019,854,30	Delaware Florida Georgia
Idaho. Illinois Indians	3.077.7	2,640,559.25 20,994,544,39 7,951,703.65	965,092,70 8,136,286,99 3,371,440.29	72 87 87	117.9 650.0 299.1	36.3	249.0 686.8 299.1	233,569.15 1,205,435,42 1,863,503,92	83,413.50 500,544.76 187.754.78	18.0 16.0 88.6	5.3	16.0 46.0 93.9	94,738.29 40,213.79 75,706.46	Idaho Illinois Indiana
Kansas Kentucky	3.839.6	5,713,863,68 3,996,969,82 4,616,147.88	1,391,650,02	3.56.85	246.5 189.4	130.0	326.1	29,981.52 1,347.512.21 5,128.59	24.415.85 2.174.85	1.38	26.0	106.1	40,861,88 216,758.02 151,809.31	Iowa Kansas Kentucky
Louisiana Maine Maryland	1,605.8 818.9 828.9	7,337,649.67 2,367,703.90 1,526,803.52	3,21,146,73 524,500,29	25 76 85 85	70.5	2.53	81.2 70.6 69.6	38,958.62	3,989.09	10.6	1.9	10.6	1.347.11 129,774.59 23,469.09	Louisiana Maine Maryland
Massachusetts Michigan Minnesota	874.2 2,312.0 4,312.5	4,198,799.43 7,083,949,22 4,645,947,47	1,013,667.21 2,803,064.95 133,628.91	5252	59.5 291.8	139.5	4.6.0 106.0 289.1	1,106,862.91	362,100.00	64.9 5.1	44.	66.3	34,120,04 43,626,17 69,532,87	Massachusetts Michigan Minnesota
Mississippi Missouri Montana	3.197.3	6,914,994.06 3,009,747.64 6,566,112.12	3,414,116.39 521,702.69	588	241.1 131.1 188.6	84.2 11.0 268.6	325.3	2,758,925,23 474,552,61	275,610.69 530,530,92 266,748.90	114.3	17.0	131.3	3,052,467,48	Mississippi Missouri Montana
Nebraska Nevada New Hampshire	1,245.8 1,331.9 4,34.1	6,450,011.64	2,992,716.69 745,827.19 371,757.23	325	33.6	159.8	331.4 156.9 24.9	315.660.18	42, 294, 58 9, 458, 43 46, 427, 90	30.5	3.5	35.0	5.464.41 103.655.70 67.067.62	Nebraska Nevada New Hampshire
New Jersey New Mexico New York	632.5 2,230.3 3,501.2	6,084,562.24 3,262,976.53 18,000,156.60	2,073,149.85 1,349,645,18 5,582,840.00	353	190.9	95.5	287.5	1,351,477.65	151,605.15	27.3	3,2	30.9	96,362,96	New Jersey New Mexico New York
North Carolina North Dakota Ohio	5.259.2 5.299.0 3.007.0	4,592,771,23 4,053,860,48 9,308,681,31	2,295,740,69	2.5%	505.5 339.7 210.8	395.6	734.9	1,217,931,47	615,722.23 315,658.72 93,680.49	131.0	278.3	347.0	1,106,713,32	North Carolina North Dakota Ohio
Oklahoma Oregon Pennsylvania	2.436.6	4,816,959.21 4,141,177.35 11,859.519.78	1,807,645,20	285	209.9 127.0 419.4	86.00	292.7 210.0	1,322,790,34 222,027,85 428,754,95	264, 557, 92 84, 632, 43 161, 792, 50	84.7. 2.8.6.	 	96.4 4.6 15.8	368.531.42 85.450.80 40.772.28	Oklahoma Oregon Pennsylvania
Rhode Island South Carolina South Dakota	1.957.4	1,071,153,47 3,522,878,38 3,571,429,82	346,631.18	252	22.5 162.8 251.4	156.2	27.0 321.0	274,267.06	62,171.28	33.7	8.		46,110.45 8,570.16 172,521.89	Rhode Island South Carolina South Dakota
Tennessee Texas Utah	1,682.2 7,816.9 1,242.3	5,319,836.5; 19,234,233,26 1,921,545.76	2,659,196,46 7,220,307,34 766,247,53	238	159.8	582.0 89.2	233.9	3,048,676,52	119,620.07 690.793.71 80.923.21	161.7	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	261.4 31.9	576.790.79	Tennessee Texas Utah
Vermont Virginia Washington	385.8 1.925.2 1.329.6	508, 094, 30 5, 008, 619, 36 2, 567, 341, 78	58.754.29 2.247,648.33 815,612.10	225	231.0	2.8	28.6	288, 394, 88	180,197.40	16.9	2.2	20.2	16,062.72 156,278.46 56,503.33	Vermont Virginia Washington
West Virginia Wisconsin Wyoming Hawaii	2.744.8 2.076.6 78.6	3,035,185,19 6,160,663.09 3,202,880,00 2,760,432.02	1.235.826.15	d=#3	113.6 159.4 68.0	101.9	281.3 131.5 68.0	52.061.50 274,623.60	27,103,37	27.2	2.4	4.0%	37,499.95 162,493.57 40,260.03 508,579,87	West Virginia Wisconsin Wyoming Hawaii
TOTALS	105,645.1	265,678,268.23	98,310,962,69	62	9,627.7	4,227.6	13.855.3	25,738,200.49	7,497,655.25	1,407.9	551.h	1.959.3	14,549,852.48	TOTALS